

Control Circuit Devices, Signal Towers

# Product Range Catalog

## Command and Indication

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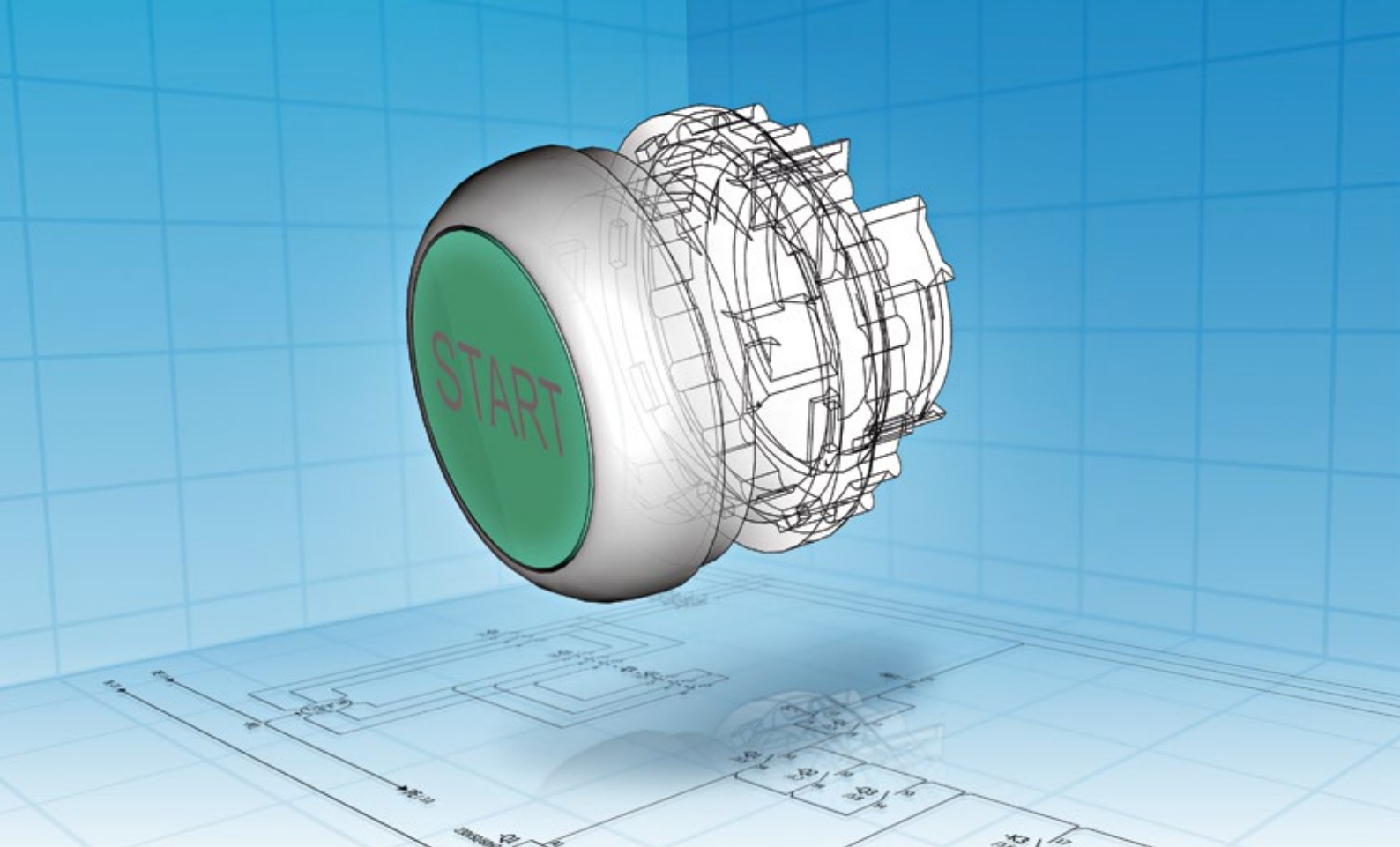
With 2015 sales of \$20.9 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

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# Planning safety and process optimization: CAD data at the click of a mouse!



- 12,900 article data items and macros
- Convenient selection tool
- Version P8



- Models for approx. 15,000 products
- 80 different neutral & native formats

Eaton is providing its customers with CAD data to offer optimum support during planning. Both electrical and mechanical design data can be called up quickly and conveniently from the Internet at any time. This reduces processing times, minimizes errors and thus reduces costs already in the engineering phase of control panels, systems and machinery.

**eCAD:** Eaton has product data and macros available for EPLAN Electric P8. After downloading the small EPLANSelection program, you will not only be able to select the items you need from a database containing more than 12,900 products, but will also be able to export them and import them into your own EPLAN item database.

**mCAD:** Eaton makes 2D and 3D data available for more than 15,000 products. Over 80 different neutral and native formats guarantee compatibility with the project engineering systems of the customer. The models can either be integrated directly into the planning software from the Partcommunity Portal on the Internet or via the CADENAS Partsolution software.

[www.eaton.eu/cad](http://www.eaton.eu/cad)

# The Pushbutton-Configurator – Select Your Products Quickly and Easily!



The Pushbutton-Configurator is available online and is designed to help you select and combine a variety of pilot devices, such as those found in the RMQ-Titan series. The configurator is user-friendly and neatly laid out, provides a quick overview of the various ranges of products, and uses intuitive user guidance to show solutions that match your needs. In addition, once all individual components have been selected, the configurator will show the assembled final product. Moreover, the setup pane shows selected products directly, making it much easier for you to configure the right components for your application.

The integrated Label Editor function can be used to create custom labels for pilot devices, enabling you to customize your applications as necessary. Moreover, the configurator also makes it possible to easily configure complete devices that are put together in a custom-tailored manner. Once you configure your pilot devices, you will be shown a convenient parts list that you can then use to easily order all the components you need. Combined with the various images and integrated links to data sheets, these parts lists ensure that you can easily put together the required documentation for your projects.

To use the Pushbutton-Configurator, visit:

[www.eaton.eu/config/rmq](http://www.eaton.eu/config/rmq)

Build it in.



## RMQ-Titan Pilot Devices Proven and Versatile



Catalog download:  
[www.eaton.eu/catalog](http://www.eaton.eu/catalog)

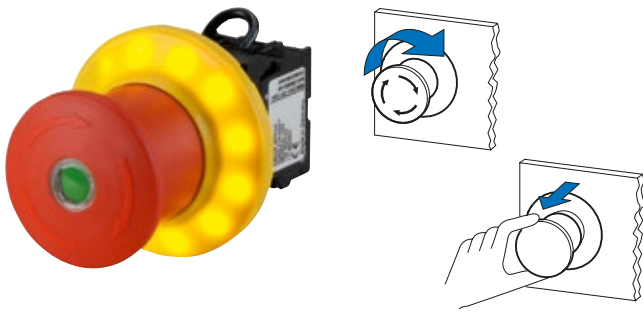
The pilot devices in the RMQ-Titan M22 and M30 series are characterized by enormous versatility, making them the perfect solution for a wide variety of applications and processes. In fact, the range of potential applications for which they can be used is further broadened by their high degree of protection. In addition, their ergonomic operators combine stylish design with optimum functionality, and using their new slim contact elements makes it possible to combine RMQ-Titan devices with minimal mounting depths. Finally, their shape and design makes RMQ-Titan pilot devices comfortable and intuitive to use.

The tried and tested M22 product series is now complemented by M30 elements with a slim design. Contact and LED elements are available in two mounting depths for the flush mounting plates for both series. Moreover, the fact that the pilot devices can be connected to the SmartWire-DT communication system makes them ingeniously simple to wire.

Emergency stop buttons in a wide variety of designs are an important element in ensuring that dangers can be safely averted, and accordingly play a key role in protecting personnel and property. Accordingly, the emergency-stop buttons in the RMQ-Titan series are tamper-proof.

Numerous type approvals and classification society approvals ensure that RMQ-Titan devices can be used worldwide.

In short, this comprehensive range of pilot devices is engineered to ensure that your machines, systems, and processes keep running smoothly.



### Safe shutdown with RMQ-Titan

The EMERGENCY-STOP or EMERGENCY-OFF buttons are available with and without a key, turn-release, non-illuminated, illuminated with standard LED or with mechanical switch position display (green/red) in the centre of the actuation element. Self-monitoring contact blocks guarantee comprehensive operational safety: even with incorrect installation or after unduly powerful actuation.



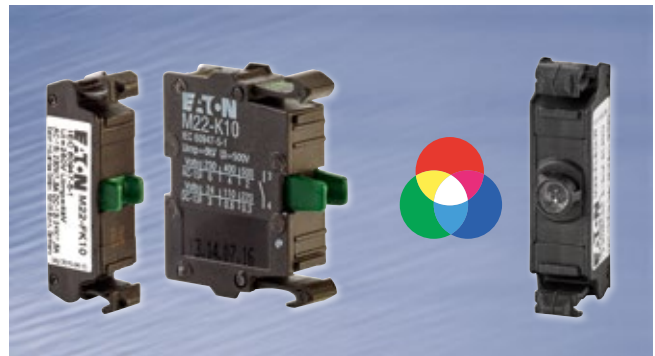
### Flush RMQ-Titan buttons

RMQ-Titan units with a flush design are the perfect complement to the industry's move towards stylish front panels for machines. These flush pushbuttons feature a modular design and are the perfect match for the RMQ-Titan series, flush contacts, and LED elements. Moreover, the flush transition between their operator and bezel make these units ideal when it comes to sleek looks and cutting-edge applications.



### Easy and flexible assembly

RMQ flat front devices are not only characterized by an attractive and sleek design, but also feature the sophisticated mounting system known as RMQ-AFX. When the knurled nut is tightened, a spring element simultaneously ensures that the assembly will automatically adjust to the thickness of the mounting plate being used. RMQ flat front devices are designed for 30.5 mm mounting holes.



### Flush and modular: flat rear elements

These flush contact and LED elements, which have a mounting depth of only 30 mm, are perfect for control panels in which every bit of space counts. They feature a one-of-a-kind modular design when it comes to operators, contacts, LED colors, and accessories, with the flush multi-color LED elements opening a whole new world of possibilities when it comes to intelligent control designs for machines.



### Fast, flexible labelling – The Labeleditor

The Label Editor is available as one of the functions in the Pushbutton-Configurator. Once you put together your pilot device combinations, you can use this function to make a customized laser inscription on your button plates using your own company or project-specific label, logo, or image – easily, conveniently, and custom-tailored to your needs! [www.eaton.eu/config/rmq](http://www.eaton.eu/config/rmq)



### High-precision settings made easy

The M22-SWD encoder makes it possible to set extremely precise settings on machines by simply turning it and confirming. Moreover, its modular design, combined with a direct SmartWire-DT connection, allows for maximum installation flexibility and ease of diagnostics. The M22-SWD encoder also completely eliminates any potential extra costs that would normally be associated with the use of an encoder.



## 1.0 RMQ-Titan pilot devices

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M30

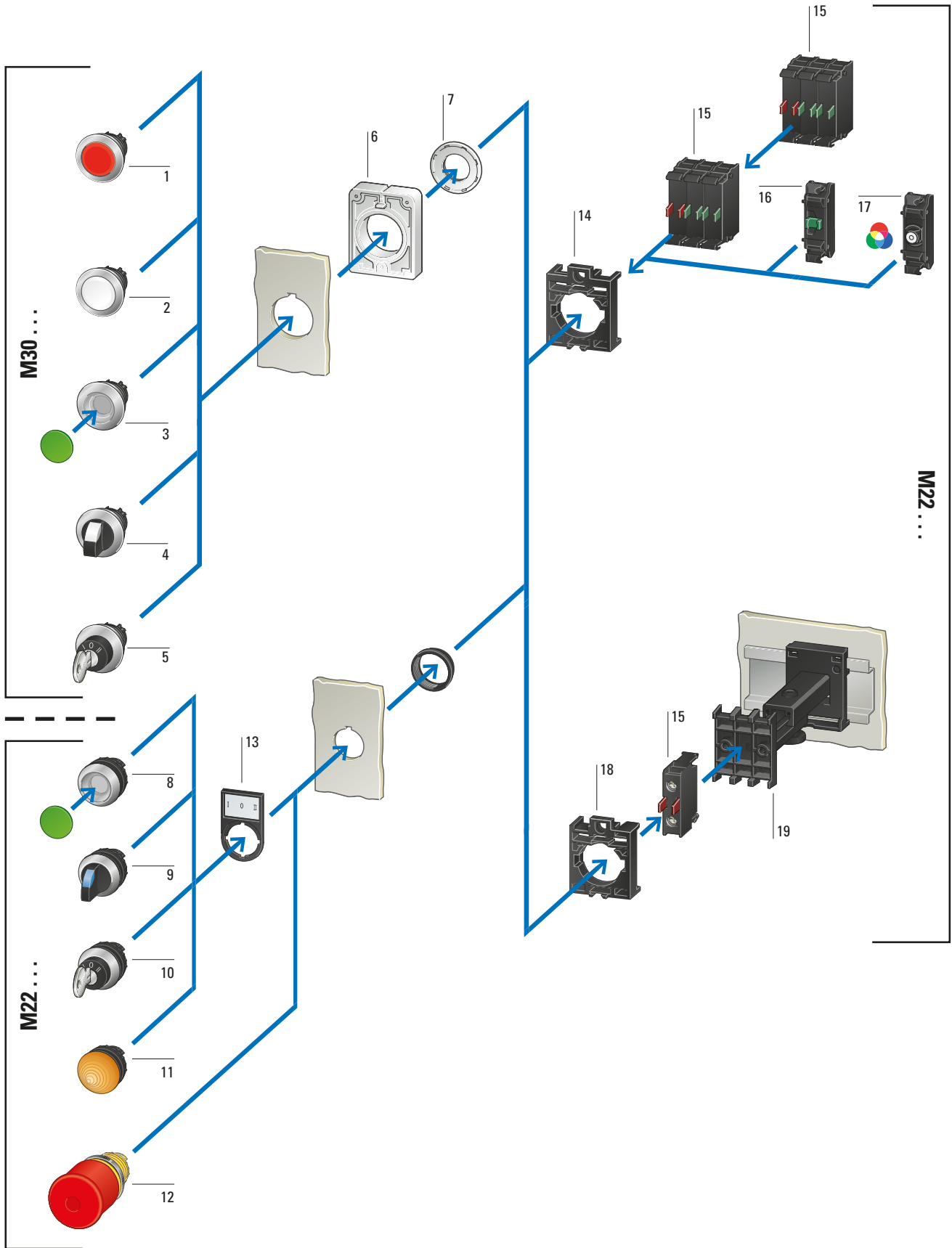


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### System overview



<p><b>M30 indicator lights</b> 1</p> <p>Style: flush</p> <p>Colors: white, green, red, yellow, blue, orange</p> <p>→ Page 44</p> <hr/> <p><b>M30 pushbuttons</b> 2</p> <p>Momentary and maintained</p> <p>Flush</p> <p>Colors: white, green, red, yellow, blue, black, grey</p> <p>→ Page 40</p> <hr/> <p><b>M30 illuminated pushbutton actuators</b> 3</p> <p>Illuminated pushbutton actuators</p> <p>Colors: white, green, red, yellow, blue, orange</p> <p>→ Page 45</p> <hr/> <p><b>M30 selector switches</b> 4</p> <p>2 and 3 positions</p> <p>With rotary head, thumb-grip</p> <p>Programmable maintained/momentary action</p> <p>Illuminated selector switches with transparent thumb-grip</p> <p>Colors: white, green, red, yellow, blue</p> <p>→ Page 41</p> <hr/> <p><b>M30 key-operated buttons</b> 5</p> <p>For individual lock mechanisms</p> <p>2 or 3 positions</p> <p>→ Page 42</p> <hr/> <p><b>RMQ-AFX</b> 6</p> <p>Anti-rotation tab</p> <p>Included with the equipment supplied with M30 front elements</p> <hr/> <p><b>Threaded rings</b> 7</p> <p>→ Page 70</p> <hr/> <p><b>M22 pushbuttons</b> 8</p> <p>Momentary and maintained</p> <p>Flush</p> <p>Colors: white, green, red, yellow, blue, black</p> <p>Illuminated pushbutton actuators</p> <p>Colors: white, green, red, yellow, blue, orange</p> <p>→ Page 25</p>	<p><b>M22 selector switches</b> 9</p> <p>2 and 3 positions</p> <p>With rotary head, thumb-grip</p> <p>Programmable maintained/momentary action</p> <p>Illuminated selector switches with transparent thumb-grip</p> <p>Colors: white, green, red, yellow, blue</p> <p>→ Page 28</p> <hr/> <p><b>M22 key-operated buttons</b> 10</p> <p>For individual lock mechanisms</p> <p>2 or 3 positions</p> <p>→ Page 29</p> <hr/> <p><b>M22 indicator lights</b> 11</p> <p>Style: flush, conical</p> <p>Colors: white, green, red, yellow, blue, orange</p> <p>→ Page 33</p> <hr/> <p><b>Controlled stop/emergency stop buttons</b> 12</p> <p>Tamper-proof as defined in ISO 13850/EN 418</p> <p>Can be secured with a sealable shroud</p> <p>Additional labels, with inscription or blank</p> <p>→ Page 14</p> <hr/> <p><b>Label mounts</b> 13</p> <p>For insert labels</p> <p>Color: black</p> <p>Insert labels: aluminum color, with inscription or blank, can be engraved</p> <p>→ Page 57</p> <hr/> <p><b>Mounting adapters</b> 14</p> <p>For flush mounting</p> <p>For contact and LED elements</p> <p>→ Page 48</p> <hr/> <p><b>Contact elements</b> 15</p> <p>N/C and N/O</p> <p>Universal contacts suitable for use with electronic devices</p> <p>Safety function implemented with positive opening as defined in IEC/EN 60947-5-1</p> <p>Max. 2 levels, each with 3 contact elements</p> <p>→ Page 48</p>	<p><b>Flat Rear contact elements</b> 16</p> <p>Cage Clamp with push-in terminals</p> <p>→ Page 53</p> <hr/> <p><b>Flat Rear LED elements</b> 17</p> <p>Cage Clamp with push-in terminals</p> <p>→ Page 53</p> <hr/> <p><b>Centering adapter</b> 18</p> <p>For centering pilot device elements when using a telescopic clip</p> <p>→ Page 69</p> <hr/> <p><b>Telescopic clip</b> 19</p> <p>For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets</p> <p>→ Page 69</p>
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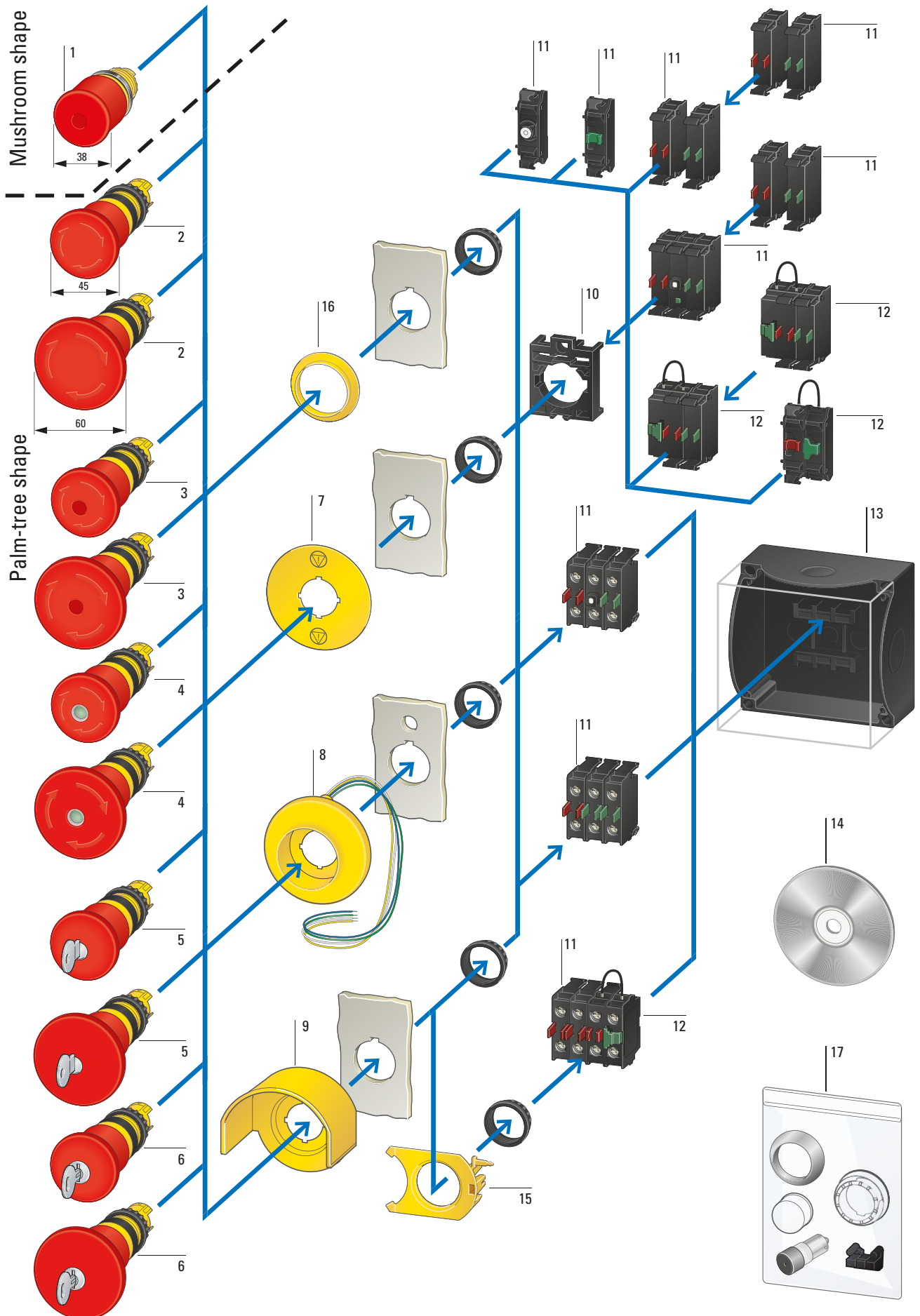
# 1.1

## RMQ-Titan pilot devices

M22 – Controlled stop/emergency stop system overview

Moeller series

1



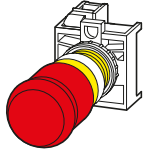
<p><b>Controlled stop buttons</b> 1  <b>Emergency stop buttons</b>  <b>Mushroom-shaped</b></p> <hr/> <p>Non-illuminated                  Can be illuminated with LED                  With MS1 - MS20 lock mechanism                  With lock mechanism for master key system                  Tamper-proof as defined in ISO 13850/EN 418                  European Machinery Safety Directive 2006/42/EC                  Can be secured with a sealable shroud                  Additional labels, with inscription or blank                  Twist release                  → Page 13</p> <hr/> <p><b>Controlled stop buttons</b> 2  <b>Emergency stop buttons</b>  <b>Palm shaped</b></p> <hr/> <p>Non-illuminated                  45 mm and 60 mm diameter                  Tamper-proof as defined in ISO 13850/EN 418                  European Machinery Safety Directive 2006/42/EC                  Additional labels, with inscription or blank                  Twist release                  → Page 14</p> <hr/> <p><b>Controlled stop buttons</b> 3  <b>Emergency stop buttons</b>  <b>Palm shaped</b></p> <hr/> <p>Can be illuminated with LED                  45 mm and 60 mm diameter                  Tamper-proof as defined in ISO 13850/EN 418                  European Machinery Safety Directive 2006/42/EC                  Additional labels, with inscription or blank                  Twist release                  → Page 14</p> <hr/> <p><b>Controlled stop buttons</b> 4  <b>Emergency stop buttons</b>  <b>Palm shaped</b></p> <hr/> <p>With mechanical position indicator                  45 mm and 60 mm diameter                  Tamper-proof as defined in ISO 13850/EN 418                  European Machinery Safety Directive 2006/42/EC                  Additional labels, with inscription or blank                  Twist release                  → Page 14</p>	<p><b>Controlled stop buttons</b> 5  <b>Emergency stop buttons</b>  <b>Palm shaped</b></p> <hr/> <p>With MS1 - MS20 lock mechanism                  45 mm and 60 mm diameter                  Tamper-proof as defined in ISO 13850/EN 418                  European Machinery Safety Directive 2006/42/EC                  Additional labels, with inscription or blank                  Twist release                  → Page 14</p> <hr/> <p><b>Controlled stop buttons</b> 6  <b>Emergency stop buttons</b>  <b>Palm shaped</b></p> <hr/> <p>With Ronis 455 lock mechanism                  45 mm and 60 mm diameter                  Tamper-proof according to ISO 13850/EN 418                  European Machinery Safety Directive 2006/42/EC                  Can be secured with a sealable shroud                  Additional labels, with inscription or blank                  Twist or pull release                  → Page 14</p> <hr/> <p><b>Controlled stop legend plates</b> 7  <b>Emergency stop legend plates</b></p> <hr/> <p>Round, square, and rectangular types                  Single-language, multi-language, custom inscription possible                  → Page 17</p> <hr/> <p><b>Illuminated rings</b> 8</p> <hr/> <p>Versions:                  24 V AC/DC, 120 V AC, 230 V AC                  Solid light                  Flashing light with separate driver                  Chaser light with separate driver, 24 V AC/DC                  With three LED rows that can be driven separately                  → Page 16</p> <hr/> <p><b>Guard rings</b> 9</p> <hr/> <p>For preventing unintended actuation                  For 38 mm and 45 mm designs                  → Page 16</p>	<p><b>Mounting adapters</b> 10</p> <hr/> <p>For flush mounting                  For contact and LED elements when using M22-A...                  For contact elements when using M22-A4                  → Page 48</p> <hr/> <p><b>Contact elements, indicator lights</b> 11                  N/C and N/O</p> <hr/> <p>Universal contacts suitable for use with electronic devices                  Safety function implemented with positive opening as defined in IEC/EN 60947-5-1                  Max. 2 levels, each with 3 contact elements                  → Page 48</p> <hr/> <p><b>Self-monitoring contacts</b> 12</p> <hr/> <p>Front mounting or base mounting                  1 N/C and 1 N/O in series                  Versions: 2 N/C 1 N/O;                  1 N/C 1 N/O                  For safety standards of up to SIL 3 as defined in EN 62061 or performance level e as defined in ISO 13849-1                  → Page 49</p> <hr/> <p><b>Enclosures</b> 13</p> <hr/> <p>IP67 surface mounting enclosures with up to 6 mounting locations                  IP55 surface mounting enclosures with up to 12 mounting locations                  IP54 flush mounting plates with up to 6 mounting locations                  IP40 shrouds for flush mounting plates                  → Page 67</p> <hr/> <p><b>Convenient labeling</b> 14</p> <hr/> <p>A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.                  Download:  <a href="http://www.eaton.eu/config/rmq">www.eaton.eu/config/rmq</a>                  Keyword: "Pushbutton Configurator                  → Label Editor function"</p> <hr/> <p><b>Signal contact actuators for SMC</b> 15                  → Page 49</p> <hr/> <p><b>Controlled stop/emergency stop legend plates</b> 16                  Requiring little space                  → Page 18</p> <hr/> <p><b>Accessories</b> 17                  → Page 69</p>
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### Product selection

Contact configuration: ☉ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

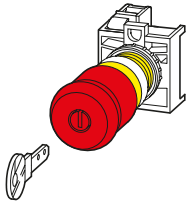
N/O = Normally open contact    N/C = Normally closed contact



#### Emergency stop buttons

Tamper-proof as defined in ISO 13850/EN 418  
Pull release  
Max. number of contacts: 4 x M22-(C)K...  
Red mushroom head, yellow base

Number of operators	Contact configuration	Contact sequence	Degree of protection	Part no. Article no.	Std. pack	Notes
–	1 N/C ☉		IP66, IP69K	<b>M22-PV/K01</b> 216515	5 units	 BAUART GEPRÜFT TYPE APPROVED  
1 N/O	1 N/C ☉		IP66, IP69K	<b>M22-PV/K11</b> 216516	5 units	



#### Emergency stop key-release mushroom button

Tamper-proof as defined in ISO 13850/EN 418  
With 1 key, MS1 individual lock mechanism, not suitable for master key systems  
Key release  
Red mushroom head, yellow base

Number of operators	Contact configuration	Contact sequence	Degree of protection	Part no. Article no.	Std. pack	Notes
–	1 N/C ☉		IP67, IP69K	<b>M22-PVS/K01</b> 216514	5 units	 BAUART GEPRÜFT TYPE APPROVED

Number of operators    Contact configuration: ☉ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

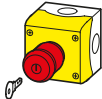
Qty.    N/O = Normally open contact    N/C = Normally closed contact



#### Emergency stop buttons

Tamper-proof as defined in ISO 13850/EN 418  
Pull release

Number of operators	Contact configuration	Contact sequence	Degree of protection	Part no. Article no.	Std. pack
–	–	2 N/C	IP66, IP69K	<b>M22-PV/KC02/IY</b> 216524	1 unit
–	1 N/O	1 N/C ☉	IP66, IP69K	<b>M22-PV/KC11/IY</b> 216525	



#### Emergency stop key-release mushroom button

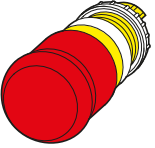




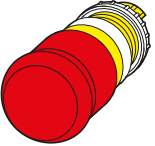


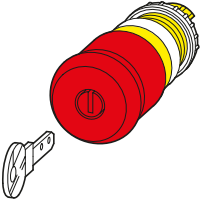



With 1 key  
MS1 lock mechanism

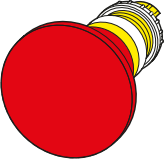
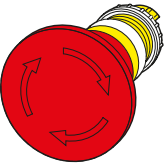
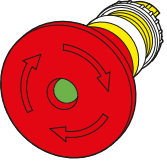
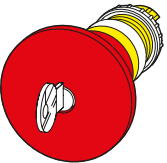
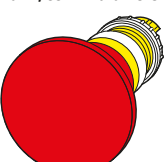
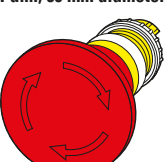
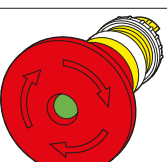
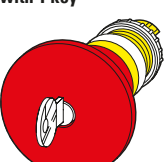
Number of operators	Contact configuration	Contact sequence	Degree of protection	Part no. Article no.	Std. pack
1	1 N/O	1 N/C ☉	IP67, IP69K	<b>M22-PVS/KC11/IY</b> 216523	1 unit

#### Customized complete devices

To order, use form F0315  
→ Data sheet in online catalog

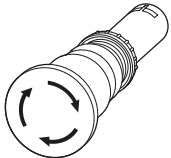
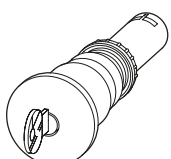
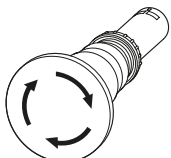
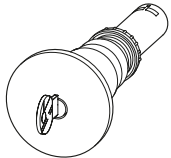
<b>M22-COMBINATION</b> 2010741	1 unit
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	Illumination		Color, mushroom head symbol	Degree of protection	Part no. Article no.	Std. pack
<b>Controlled stop/emergency stop buttons</b>						
<b>Pull release</b> <b>38 mm button diameter</b> 	Without illumination	Pull release		IP66, IP69K	<b>M22-PV</b> 216876	5 units
	Without illumination	Pull release		IP66, IP69K	<b>M22-PV-GVP</b> 216877	50 units
	Without illumination	Pull release		IP66, IP69K	<b>M22-PV-ESS</b> 178983	5 units
	Can be illuminated with LED element	Pull release		IP66, IP69K	<b>M22-PVL</b> 216878	
<b>Twist release</b> <b>38 mm button diameter</b> 	Without illumination	Twist release		IP67, IP69K	<b>M22-PVT</b> 263467	5 units
	Can be illuminated with LED element	Twist release		IP67, IP69K	<b>M22-PVLT</b> 263469	
<b>Key release</b> <b>38 mm button diameter with 1 key</b> 	Without illumination	MS1 individual lock mechanism Not suitable for master key systems		IP67, IP69K	<b>M22-PVS</b> 216879	5 units
	Without illumination	MS2 - MS20 individual lock mechanism Not suitable for master key systems * → 2, ..., 20 (i.e.: M22-PVS-MS2, ..., M22-PVS-M20)		IP67, IP69K	<b>M22-PVS-MS*</b> 216880	1 unit
	Without illumination	Suitable for master key systems To order, use form MZ047002ZU (formerly F0276) → Data sheet in online catalog Delivery will take approx. 4 to 6 weeks For master key systems, please refer to → Page 30		IP67, IP69K	<b>M22-PVS-SA(*)-*</b> 104826	



	Illumination		Mushroom head color	Part no. Article no.	Std. pack
<b>Controlled stop/emergency stop buttons, IP67, IP69K</b>					
<b>Pull release</b> <b>Palm, 45 mm diameter</b> 	Without illumination		●	<b>M22-PV45P</b> 152862	1 unit
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	<b>M22-PV45P-MPI</b> 152863	
	Can be illuminated with LED element		●	<b>M22-PVL45P</b> 152860	
<b>Twist release</b> <b>Palm, 45 mm diameter</b> 	Without illumination	–	●	<b>M22-PVT45P</b> 121462	1 unit
	Can be illuminated with LED element	–	●	<b>M22-PVLT45P</b> 121460	
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	<b>M22-PVT45P-MPI</b> 121463	
	Without illumination	MS1 individual lock mechanism Not suitable for master key systems	●	<b>M22-PVS45P-MS1</b> 121468	1 unit
<b>Key release</b> <b>Palm, 45 mm diameter with 1 key</b> 	Without illumination	MS2 - MS20 individual lock mechanisms Not suitable for master key systems *→ 2, ..., 20 (i.e.: M22-PVS45P-MS2, ..., M22-PVS45P-MS20)	●	<b>M22-PVS45P-MS*</b> 121470	
	Without illumination	Ronis 455 individual lock mechanism Not suitable for master key systems	●	<b>M22-PVS45P-RS</b> 121466	
<b>Controlled stop/emergency stop buttons, IP67, IP69K</b>					
<b>Pull release</b> <b>Palm, 60 mm diameter</b> 	Without illumination		●	<b>M22-PV60P</b> 152864	1 unit
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	<b>M22-PV60P-MPI</b> 152865	
	Can be illuminated with LED element		●	<b>M22-PVL60P</b> 152861	
<b>Twist release</b> <b>Palm, 60 mm diameter</b> 	Without illumination	–	●	<b>M22-PVT60P</b> 121464	
	Can be illuminated with LED element	–	●	<b>M22-PVLT60P</b> 121461	
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated	●	<b>M22-PVT60P-MPI</b> 121465	
	Without illumination	MS1 individual lock mechanism Not suitable for master key systems	●	<b>M22-PVS60P-MS1</b> 121469	
<b>Key release</b> <b>Palm, 60 mm diameter with 1 key</b> 	Without illumination	MS2 - MS20 individual lock mechanisms Not suitable for master key systems *→ 2, ..., 20 (i.e.: M22-PVS60P-MS2, ..., M22-PVS60P-MS20)	●	<b>M22-PVS60P-MS*</b> 121471	
	Without illumination	Ronis 455 individual lock mechanism Not suitable for master key systems	●	<b>M22-PVS60P-RS</b> 121467	



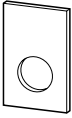
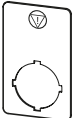

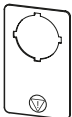

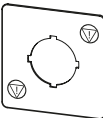

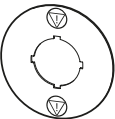
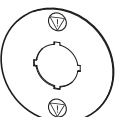
C22 – Controlled stop/emergency stop complete devices

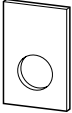
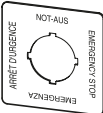


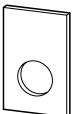
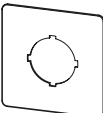
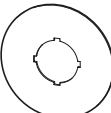


	Mushroom head color	Contact configuration		Part no. Article no.	Std. pack	
		N/O = Normally open contact	N/C = Normally closed contact			
<b>Controlled stop/emergency stop buttons, IP67, IP69K</b>						
<b>Twist release</b> <b>Palm, 45 mm diameter</b> 	Without illumination	●		2 N/C ⊕	<b>C22-PVT45P-K02</b> 121611	1 unit
	Without illumination	●	1 N/O	1 N/C ⊕	<b>C22-PVT45P-K11</b> 121610	
<b>Key release, MS1</b> <b>Palm, 45 mm diameter</b> 	Without illumination	●		2 N/C ⊕	<b>C22-PVS45P-MS1-K02</b> 121619	
	Without illumination	●	1 N/O	1 N/C ⊕	<b>C22-PVS45P-MS1-K11</b> 121618	
<b>Twist release</b> <b>Palm, 60 mm diameter</b> 	Without illumination	●		2 N/C ⊕	<b>C22-PVT60P-K02</b> 121621	
	Without illumination	●	1 N/O	1 N/C ⊕	<b>C22-PVT60P-K11</b> 121620	
<b>Key release, MS1</b> <b>Palm, 60 mm diameter</b> 	Without illumination	●		2 N/C ⊕	<b>C22-PVS60P-MS1-K02</b> 121613	
	Without illumination	●	1 N/O	1 N/C ⊕	<b>C22-PVS60P-MS1-K11</b> 121612	

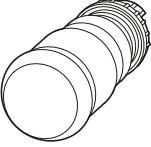



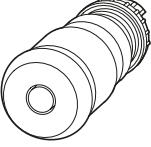



**Notes** ⊕ Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

	RAL number	Degree of protection	Part no. Article no.	Std. pack
<b>Guard rings</b>				
Makes accidental actuation more difficult				
	RAL 1004	IP65	<b>M22-XGPV</b> 231273	1 unit
	RAL 1004	IP65	<b>M22-XGPV3</b> 177047	
<b>Sealable shroud</b>				
For devices with a 38 mm button diameter Transparent with detachment position; can be reused after controlled stop/emergency stop/stop Adjacent holes must be sealed with M22(S)-B blanking plugs in a 30 x 50 grid				
	–	IP65	<b>M22-PL-PV</b> 216397	2 units
<b>LED-luminous rings</b>				
Yellow with yellow LEDs → Engineering, Page 75 (circuit diagrams)				
60 mm diameter 24 V AC/DC Three groups, with 4 LEDs each (connected in series), that can be driven separately (e.g., for a chaser light sequence)			<b>M22-XPV60-Y-24</b> 121477	1 unit
60 mm diameter 120 V AC One group of 8 LEDs (connected in series)			<b>M22-XPV60-Y-120</b> 121476	1 unit
60 mm diameter 230 V AC One group of 8 LEDs (connected in series)			<b>M22-XPV60-Y-230</b> 138280	1 unit
<b>Customized complete devices</b>				
To order, use form F0315 → Data sheet in online catalog				
			<b>M22-COMBINATION</b> 2010741	1 unit

**Note:** Contact elements → Page 48

	Inscription	Language	Color	Part no. Article no.	Std. pack
<b>Controller stop legend plates, IP66</b>					
Black lettering					
<b>33 x 50 mm</b> 	NOT-HALT	de	●	<b>M22-XZK1-D99</b> 121089	10 units
	Arresto di emergenza	it	●	<b>M22-XZK1-I99</b> 121370	
	HÄTÄPYSÄYTYS	fi	●	<b>M22-XZK1-SF99</b> 121371	
<b>33 x 50 mm</b> 	Symbol (5638) for controlled stop	–	●	<b>M22-XZK-ESS</b> 180470	
<b>50 x 50 mm</b> 	Four languages	de, en, fr, it	●	<b>M22-XYK11</b> 121373	
<b>33 x 50 mm</b> 	Symbol (5638) for controlled stop	–	●	<b>M22-XZK-ESS2</b> 180474	
<b>90 mm diameter</b> 	Four languages	de, en, fr, it	●	<b>M22-XAK11</b> 121085	
	Four languages	de, en, es, pt	●	<b>M22-XAK12</b> 121086	
	Four languages	de, en, nl, fr	●	<b>M22-XAK13</b> 121087	
	Four languages	en, sv, fi, da	●	<b>M22-XAK14</b> 121088	
<b>50 x 50 mm</b> 	Symbol (5638) for NOT-HALT	–	●	<b>M22-XYK-ESS</b> 180471	
<b>60 mm diameter</b> 	Four languages	de, en, fr, it	●	<b>M22-XBK11</b> 121372	
<b>90 mm diameter</b> 	Symbol (5638) for controlled stop	–	●	<b>M22-XAK-ESS</b> 180469	
<b>60 mm diameter</b> 	Symbol (5638) for controlled stop	–	●	<b>M22-XBK-ESS</b> 180472	

	Inscription	Language	Color	Part no. Article no.	Std. pack
<b>Emergency stop legend plates, IP66</b>					
Black lettering					
<b>33 x 50 mm</b> 	NOT-AUS	de	●	<b>M22-XZK-D99</b> 216471	10 units
	Emergency Stop	en	●	<b>M22-XZK-GB99</b> 216472	
	Arrêt d'urgence	fr	●	<b>M22-XZK-F99</b> 216473	
	EMERGENZA	it	●	<b>M22-XZK-I99</b> 216474	
	NOODSTOP	nl	●	<b>M22-XZK-NL99</b> 216475	
	NÖDSTOPP	sv	●	<b>M22-XZK-S99</b> 216476	
	HÄTÄ-SEIS	fi	●	<b>M22-XZK-SF99</b> 216477	
	NØDSTOP	da	●	<b>M22-XZK-DK99</b> 216478	
<b>50 x 50 mm</b> 	–	de, en, fr, it	●	<b>M22-XYK1</b> 216484	
<b>90 mm diameter</b> 	–	de, en, fr, it	●	<b>M22-XAK1</b> 216465	
	–	de, en, es, pt	●	<b>M22-XAK2</b> 216466	
	–	de, en, nl, fr	●	<b>M22-XAK3</b> 216467	
	–	en, sv, fi, da	●	<b>M22-XAK4</b> 216468	
<b>60 mm diameter</b> 	Four languages	de, en, fr, it	●	<b>M22-XBK1</b> 216483	
<b>Controlled stop/emergency stop legend plates</b>					
<b>33 x 50 mm</b> 	With customized Label Editor inscription – → Engineering, Page 74	–	●	<b>M22-XZK-*</b> 216479	10 pieces
	Blank	–	●	<b>M22-XZK</b> 216470	
<b>50 x 50 mm</b> 	With customized Label Editor inscription – → Engineering, Page 74	–	●	<b>M22-XYK-*</b> 231181	
<b>90 mm diameter</b> 	With customized Label Editor inscription – → Engineering, Page 74	–	●	<b>M22-XAK-*</b> 216469	
	Blank	–	●	<b>M22-XAK</b> 216464	
<b>60 mm diameter</b> 	With customized Label Editor inscription – → Engineering, Page 74	–	●	<b>M22-XBK-*</b> 231762	
	Blank	–	●	<b>M22-XBK</b> 269580	
<b>40 mm diameter</b> 	Blank, for small installation spaces	–	●	<b>M22-XAK40</b> 177703	

	Mushroom head color	Degree of protection	Part no. Article no.	Std. pack
<b>Stop pushbuttons</b>				
	Non-illuminated, pull release		IP66, IP69K <b>M22S-PV</b> 225528	5 units
	Non-illuminated, twist release		IP67, IP69K <b>M22S-PVT</b> 271499	
	Non-illuminated, twist release		IP67, IP69K <b>M22Y-PVT</b> 147403	
	Illuminated, pull release		IP66, IP69K <b>M22S-PVL</b> 230962	
	Illuminated, twist release		IP67, IP69K <b>M22S-PVLT</b> 271540	
<b>Guard ring for stop pushbutton</b>				
	—	IP65	<b>M22G-XGPV</b> 271610	1 unit

# 1.3

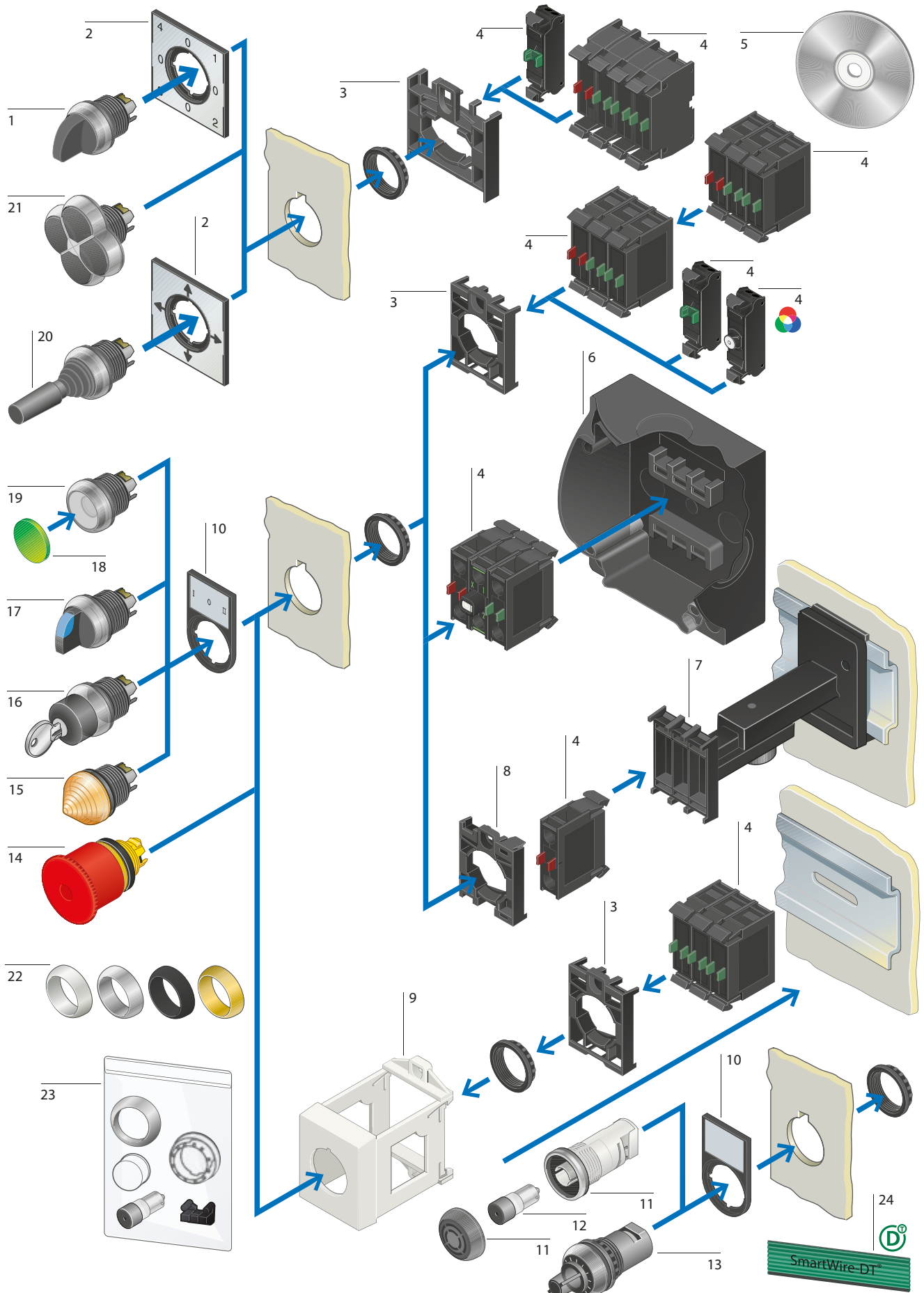
## RMQ-Titan pilot devices

M22 – System overview

Moeller series






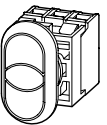

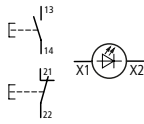

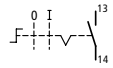
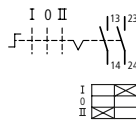
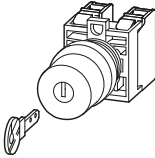
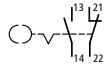
### 1

#### System overview








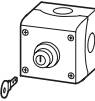



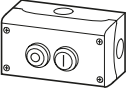



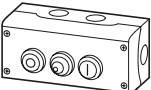
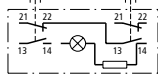
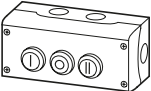



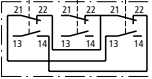
<p><b>M22 4-way selector switches</b> 1</p> <p>4 positions With rotary head or thumb-grip 0-1-0-2-0-3-0-4 maintained action → Page 28</p> <hr/> <p><b>Labels with label mounts</b> 2</p> <p>Color: aluminum Labels: with inscription, with custom inscription, blank → Page 32</p> <hr/> <p><b>Mounting adapters</b> 3</p> <p>For flush mounting For contact and LED elements when using M22-A... For contact elements when using M22-A4 → Page 48</p> <hr/> <p><b>(Double) contact elements</b> 4</p> <p>N/C and N/O Universal contacts suitable for use with electronic devices Safety function implemented with positive opening as defined in IEC/EN 60947-5-1 Max. 2 levels, each with 3 contact elements → Page 49</p> <hr/> <p><b>LED elements</b> 4</p> <p>Voltage range: 12 - 30 V AC/DC 85 - 264 V AC → Page 51</p> <hr/> <p><b>Convenient labeling</b> 5</p> <p>A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products. Download: <a href="http://www.eaton.eu/config/rmq">www.eaton.eu/config/rmq</a> Keyword: "Pushbutton Configurator → Label Editor function"</p> <hr/> <p><b>Enclosures</b> 6</p> <p>IP67 surface mounting enclosures with up to 6 mounting locations IP55 surface mounting enclosures with up to 12 mounting locations IP54 flush mounting plates with up to 6 mounting locations IP40 and IP55 shrouds for flush mounting plates → Page 67</p> <hr/> <p><b>Telescopic clip</b> 7</p> <p>4 positions For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets → Page 69</p>	<p><b>Centering adapter</b> 8</p> <p>For centering pilot device elements when using a telescopic clip → Page 69</p> <hr/> <p><b>IVS top-hat rail adapter</b> 9</p> <p>For direct mounting on IEC/EN 60175 DIN-rail → Page 70</p> <hr/> <p><b>Label mounts</b> 10</p> <p>For insert labels Color: black Insert labels: aluminum color, with inscription or blank, can be engraved → Page 57</p> <hr/> <p><b>Acoustic device</b> 11</p> <p>IP40 degree of protection without buzzer → Page 34</p> <hr/> <p><b>Buzzer for acoustic device</b> 12</p> <p>Continuous tone, pulse tone 18 - 30 V DC → Page 34</p> <hr/> <p><b>Potentiometers</b> 13</p> <p>Resistances of 1 kΩ - 1 MΩ 3 individual connections With screw terminals → Page 34</p> <hr/> <p><b>Controlled stop/emergency stop buttons</b> 14</p> <p>Tamper-proof as defined in ISO 13850/EN 418 Can be secured with a sealable shroud Additional labels, with inscription or blank → Page 14</p> <hr/> <p><b>Indicator lights</b> 15</p> <p>Style: flush, conical Colors: white, green, red, yellow, blue → Page 33</p> <hr/> <p><b>Key-operated buttons</b> 16</p> <p>2 and 3 positions Programmable momentary/maintained action and key withdraw Suitable for master key systems → Page 29</p> <hr/> <p><b>Selector switches</b> 17</p> <p>2 and 3 positions With rotary head, thumb-grip Programmable maintained/momentary action Illuminated selector switches with transparent thumb-grip Colors: white, green, red, yellow, blue → Page 28</p>	<p><b>Button plates/button lenses</b> 18</p> <p>Laser inscription for pushbuttons and mushroom pushbuttons Button lenses for illuminated pushbutton actuators and indicator lights, flush With standard texts and symbols or with customized inscriptions → Page 60</p> <hr/> <p><b>Pushbuttons</b> 19</p> <p>Momentary and maintained Flush and extended With and without guard ring Mushroom pushbuttons, double actuator pushbuttons Colors: white, green, red, yellow, blue, black Illuminated pushbutton actuators Colors: white, green, red, yellow, blue → Page 25</p> <hr/> <p><b>Joysticks</b> 20</p> <p>4 positions → Page 31</p> <hr/> <p><b>4-way pushbuttons</b> 21</p> <p>4 positions Pushbuttons, momentary → Page 32</p> <hr/> <p><b>Bezels</b> 22</p> <ul style="list-style-type: none"> <li>• Silver</li> <li>• Black</li> <li>• 24 carat gold can only be ordered with M22-COMBINATION</li> </ul> <p>→ Page 69</p> <hr/> <p><b>Accessories</b> 23</p> <p>→ Page 69</p> <hr/> <p><b>SmartWire-DT</b> 24</p> <hr/> <p><b>Product characteristics</b></p> <ul style="list-style-type: none"> <li>• Clip-fit assembly modular system</li> <li>• Silver, black, or gold bezel</li> <li>• Mounting hole diameter: 22.3 mm</li> <li>• Minimum grid dimension: 30 x 40 mm</li> <li>• Min. degree of protection: IP66</li> <li>• Up to 6 contacts per mounting location</li> <li>• For switching differing potentials</li> <li>• Approved throughout the world</li> </ul>
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## Product selection
























	Button plate	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1 N/O = Normally open contact    N/C = Normally closed contact	Contact sequence	Degree of protection	Silver bezel Part no. Article no.	Std. pack		
<b>Pushbuttons</b>								
	Flush							
		–	1 N/C ⊖		IP67, IP69K	<b>M22-D-R-X0/K01</b> 216510	5 units	
		1 N/O	–		IP67, IP69K	<b>M22-D-G-X1/K10</b> 216512	5 units	
<b>Double actuator pushbutton with LED element, white lens</b>								
	85 - 264 V AC							
		1 N/O	1 N/C ⊖		IP66	<b>M22-DDL-GR-X1/X0/K11/230-W</b> 216509	5 units	
<b>Selector switches</b>								
	Black thumb-grip Maintained/momentary action, can be changed with M22-XC-Y configuration adapters → Page 74 Switch positions 0, I, II correspond to the operator's position when viewed from the front. Gold-plated bezel → Page 69							
	2 positions Maintained	–	1 N/O	–		IP66	<b>M22-WRK/K10</b> 216518	5 units
	3 positions Maintained	–	2 N/O	–		IP66	<b>M22-WRK3/K20</b> 216520	5 units
<b>Key-operated button</b>								
	Maintained/momentary action and key withdraw can be changed with M22-XC-... configuration adapters → Page 74 2 positions maintained MS1 lock mechanism, with 1 key							
	–	–	1 N/O	1 N/C ⊖		IP66	<b>M22-WRS/K11</b> 216517	5 units



Silver bezel

Number of operators	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1		Contact sequence	Color of enclosure top	Degree of protection	Part no. Article no.	Std. pack
Qty.	N/O = Normally open contact	N/C = Normally closed contact		RAL number			
<b>Pushbuttons</b>							
Flush							
	1	1 N/O	1 N/C ⊖		●	RAL 7035 IP67, IP69K <b>M22-D-G-X1/KC11/I</b> 216522	1 unit
							
	1	1 N/O	1 N/C ⊖		●	RAL 7035 IP67, IP69K <b>M22-D-R-X0/KC11/I</b> 216521	
							
<b>Key-operated button</b>							
	Maintained/momentary action and key withdraw can be changed with M22-XC-... configuration adapters → Page 74						
	With 1 key 2 positions, maintained MS1 lock mechanism						
	1	1 N/O	1 N/C ⊖	●	RAL 7035 IP66 <b>M22-WRS/KC11/I</b> 216526	1 unit	
							
<b>Assembled control station</b>							
<b>Without indicator lights</b>	2	2 N/O	2 N/C ⊖	 	●	RAL 7035 IP67, IP69K <b>M22-I2-M1</b> 216529	1 unit
							
<b>With white indicator light, LED element 85 - 264 V AC</b>	2	2 N/O	2 N/C ⊖	 	●	RAL 7035 IP67, IP69K <b>M22-I3-M2</b> 216533	1 unit
							
<b>Assembled control station</b>							
	3	3 N/O	3 N/C ⊖	  	●	RAL 7035 IP67, IP69K <b>M22-I3-M1</b> 216532	1 unit
							
<b>Customized complete devices</b>							
To order, use form FO315 → Data sheet in online catalog						<b>M22-COMBINATION</b> 2010741	1 unit

Style	Button plate	Silver bezel	Black bezel	Std. pack
		Part no. Article no.	Part no. Article no.	
 <p><b>Double actuator pushbuttons with indicator light, IP66</b></p> <p>White lens Momentary Gold-plated bezel → Page 69</p>				
Extended pushbuttons and indicator light		<b>M22-DDL-GR</b> 216698	<b>M22S-DDL-GR</b> 216699	5 units
		<b>M22-DDL-GR-X1/X0</b> 216700	<b>M22S-DDL-GR-X1/X0</b> 216701	
		<b>M22-DDL-GR-GB1/GB0</b> 216702	<b>M22S-DDL-GR-GB1/GB0</b> 216703	
		<b>M22-DDL-WS</b> 216704	<b>M22S-DDL-WS</b> 216705	
		<b>M22-DDL-WS-X1/X0</b> 216706	<b>M22S-DDL-WS-X1/X0</b> 216707	
		<b>M22-DDL-WS-GB1/GB0</b> 216708	<b>M22S-DDL-WS-GB1/GB0</b> 216709	
		<b>M22-DDL-S-X7/X7</b> 216710	<b>M22S-DDL-S-X7/X7</b> 216711	
		<b>M22-DDL-S-X226/X26</b> 105227	–	
		<b>M22-DDL-S-X4/X5</b> 218145	<b>M22S-DDL-S-X4/X5</b> 218146	
	With customized Label Editor inscription → Notes	<b>M22-DDL-*.~.*</b> 226770	<b>M22S-DDL-*.~.*</b> 230350	
Flush pushbuttons and indicator light		<b>M22-DDLF-GR-X1/X0</b> 284814	<b>M22S-DDLF-GR-X1/X0</b> 284815	5 units
		<b>M22-DDLF-WS-X1/X0</b> 284816	<b>M22S-DDLF-WS-X1/X0</b> 284817	
	With customized Label Editor inscription → Notes	<b>M22-DDLF-*.~.*</b> 284818	<b>M22S-DDLF-*.~.*</b> 284819	
Pushbutton I and indicator light flush, pushbutton O extended		<b>M22-DDLM-GR-X1/X0</b> 284830	<b>M22S-DDLM-GR-X1/X0</b> 284831	5 units
		<b>M22-DDLM-WS-X1/X0</b> 284832	<b>M22S-DDLM-WS-X1/X0</b> 284833	
	With customized Label Editor inscription → Notes	<b>M22-DDLM-*.~.*</b> 107062		
<b>Notes</b>	1st wildcard (*)	= Button plate color:	B = Blue, G = Green, R = Red, S = Black B/S = Blue top/black base G/R = Green top/red base G/S = Green top/black base W/S = White top/black base	
	2nd and 3rd wildcards (*)	= Filename assigned by Label Editor (enter twice) Additional color combinations available upon request → Engineering, Page 74		

Button plate	Silver bezel		Std. pack	Black bezel		Notes
	Part no. Article no.			Part no. Article no.	Std. pack	
<b>IP67, IP69K pushbuttons</b>						
Gold-plated bezel → Page 69						
<b>Flush, momentary</b> 		<b>M22-D-S</b> 216590	10 units	<b>M22S-D-S</b> 216591	10 units	–
		<b>M22-D-W</b> 216592		<b>M22S-D-W</b> 216593		
		<b>M22-D-R</b> 216594		<b>M22S-D-R</b> 216595		
		<b>M22-D-G</b> 216596		<b>M22S-D-G</b> 216597		
		<b>M22-D-Y</b> 216598		<b>M22S-D-Y</b> 216599		
		<b>M22-D-B</b> 216600		<b>M22S-D-B</b> 216601		
		<b>M22-D-GR</b> 132671		<b>M22S-D-GR</b> 132672		
	–	<b>M22-D-X</b> 216602		<b>M22S-D-X</b> 216604		
	–	<b>M22-D-X-GVP</b> 216603	50 units			
		<b>M22-D-R-X0</b> 216605	10 units	<b>M22S-D-R-X0</b> 216606	10 units	
		<b>M22-D-G-X1</b> 216607		<b>M22S-D-G-X1</b> 216608		
		<b>M22-D-S-X0</b> 216609		<b>M22S-D-S-X0</b> 216610		
		<b>M22-D-W-X1</b> 216611		<b>M22S-D-W-X1</b> 216612		
	<b>Flush, maintained</b> 		<b>M22-DR-S</b> 216613	5 units	<b>M22S-DR-S</b> 216614	5 units
		<b>M22-DR-W</b> 216615		<b>M22S-DR-W</b> 216616		
		<b>M22-DR-R</b> 216617		<b>M22S-DR-R</b> 216618		
		<b>M22-DR-G</b> 216619		<b>M22S-DR-G</b> 216620		
		<b>M22-DR-Y</b> 216621		<b>M22S-DR-Y</b> 216622		
		<b>M22-DR-B</b> 216623		<b>M22S-DR-B</b> 216624		
–		<b>M22-DR-X</b> 216625		<b>M22S-DR-X</b> 216627		
–		<b>M22-DR-X-GVP</b> 216626	50 units			
		<b>M22-DR-R-X0</b> 216628	5 units	<b>M22S-DR-R-X0</b> 216629	5 units	
		<b>M22-DR-G-X1</b> 216630		<b>M22S-DR-G-X1</b> 216631		
		<b>M22-DR-S-X0</b> 216632		<b>M22S-DR-S-X0</b> 216633		
		<b>M22-DR-W-X1</b> 216634		<b>M22S-DR-W-X1</b> 216635		

Button plate	Silver bezel		Black bezel		Notes
	Part no. Article no.	Std. pack	Part no. Article no.	Std. pack	

#### IP67, IP69K pushbuttons

Gold-plated bezel → Page 69

Extended, momentary

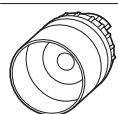
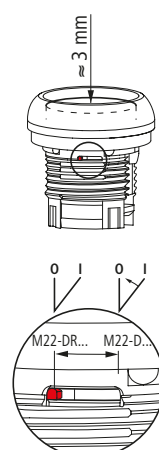


	<b>M22-DH-S</b> 216636	5 units	<b>M22S-DH-S</b> 216637	5 units	–
	<b>M22-DH-W</b> 216638		<b>M22S-DH-W</b> 216639		
	<b>M22-DH-G</b> 216643		<b>M22S-DH-G</b> 216645		
	<b>M22-DH-R</b> 216641		<b>M22S-DH-R</b> 216642		
	<b>M22-DH-Y</b> 216646		<b>M22S-DH-Y</b> 216647		
	<b>M22-DH-B</b> 216649		<b>M22S-DH-B</b> 216650		
	<b>M22-DH-R-X0</b> 216655		<b>M22S-DH-R-X0</b> 216656		
	<b>M22-DH-G-X1</b> 216657		<b>M22S-DH-G-X1</b> 216658		
	<b>M22-DH-S-X0</b> 216659		<b>M22S-DH-S-X0</b> 216660		
	<b>M22-DH-W-X1</b> 216661		<b>M22S-DH-W-X1</b> 216662		

Extended, maintained



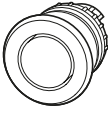









































	<b>M22-DRH-S</b> 216663	5 units	<b>M22S-DRH-S</b> 216664	5 units	Programmable maintained/ momentary pushbutton action
	<b>M22-DRH-W</b> 216665		<b>M22S-DRH-W</b> 216666		
	<b>M22-DRH-R</b> 216667		<b>M22S-DRH-R</b> 216668		
	<b>M22-DRH-G</b> 216669		<b>M22S-DRH-G</b> 216670		
	<b>M22-DRH-Y</b> 216671		<b>M22S-DRH-Y</b> 216672		
	<b>M22-DRH-B</b> 216673		<b>M22S-DRH-B</b> 216674		
	<b>M22-DRH-R-X0</b> 216675		<b>M22S-DRH-R-X0</b> 216676		
	<b>M22-DRH-G-X1</b> 216677		<b>M22S-DRH-G-X1</b> 216678		
	<b>M22-DRH-S-X0</b> 216679		<b>M22S-DRH-S-X0</b> 216680		
	<b>M22-DRH-W-X1</b> 216681		<b>M22S-DRH-W-X1</b> 216682		



#### Pushbuttons with guard ring, momentary, IP66, IP69K

Gold-plated bezel → Page 69

–	<b>M22-DG-X</b> 220921	5 units	–	–
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	Silver bezel		Std. pack	Black bezel		Notes	
	Button plate	Button color		Part no. Article no.	Part no. Article no.		Std. pack
<b>Mushroom pushbuttons, IP67, IP69K</b>							
Gold-plated bezel → Page 69							
<b>Momentary</b> 			<b>M22-DP-S</b> 216712	5 units	<b>M22S-DP-S</b> 216713	5 units	–
			<b>M22-DP-R</b> 216714		<b>M22S-DP-R</b> 216715		
			<b>M22-DP-G</b> 216716		<b>M22S-DP-G</b> 216717		
			<b>M22-DP-Y</b> 216718		<b>M22S-DP-Y</b> 216719		
			<b>M22-DP-R-X0</b> 216720		<b>M22S-DP-R-X0</b> 216721		
			<b>M22-DP-G-X1</b> 216722		<b>M22S-DP-G-X1</b> 216723		
			<b>M22-DP-S-X0</b> 216724		<b>M22S-DP-S-X0</b> 216725		
			<b>M22-DP-W-X1</b> 216726		<b>M22S-DP-W-X1</b> 216727		
	–		<b>M22-DP-S-X</b> 216728		<b>M22S-DP-S-X</b> 216730		
	–		<b>M22-DP-R-X</b> 216731		<b>M22S-DP-R-X</b> 216733		
	–		<b>M22-DP-G-X</b> 216734		<b>M22S-DP-G-X</b> 216736		
	–		<b>M22-DP-Y-X</b> 216737		<b>M22S-DP-Y-X</b> 216739		
	<b>Maintained</b> 			<b>M22-DRP-S</b> 216743	5 units	<b>M22S-DRP-S</b> 216744	5 units
			<b>M22-DRP-R</b> 216745		<b>M22S-DRP-R</b> 216746		
			<b>M22-DRP-G</b> 216747		<b>M22S-DRP-G</b> 216748		
			<b>M22-DRP-Y</b> 216749		<b>M22S-DRP-Y</b> 216750		
			<b>M22-DRP-R-X0</b> 216751		<b>M22S-DRP-R-X0</b> 216752		
			<b>M22-DRP-G-X1</b> 216753		<b>M22S-DRP-G-X1</b> 216754		
			<b>M22-DRP-S-X0</b> 216755		<b>M22S-DRP-S-X0</b> 216756		
			<b>M22-DRP-W-X1</b> 216757		<b>M22S-DRP-W-X1</b> 216758		
–			<b>M22-DRP-S-X</b> 216759		<b>M22S-DRP-S-X</b> 216761		
–			<b>M22-DRP-R-X</b> 216762		<b>M22S-DRP-R-X</b> 216764		
–			<b>M22-DRP-G-X</b> 216765		<b>M22S-DRP-G-X</b> 216767		
–			<b>M22-DRP-Y-X</b> 216768		<b>M22S-DRP-Y-X</b> 216770		

### M22 – Selector switches







Action:	Button plate	Inscription	Function	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
▷ = Momentary (MO)							
┘ = Maintained (MA)							

#### Selector switches, IP66

Gold-plated bezel → Page 69







Maintained/momentary action can be changed with configuration kit → Page 30

#### 2 positions

<b>With rotary head</b> 	▷ 40°		–	–	<b>M22-W</b> 216853	5 units	<b>M22S-W</b> 216854	5 units
	┘ 60°		–	–	<b>M22-WR</b> 216855		<b>M22S-WR</b> 216856	
	┘ 60°		–	–	<b>M22-WR-X92</b> 216857		<b>M22S-WR-X92</b> 216858	
	┘ 60°		AUTO MANUAL	–	<b>M22-WR-X91</b> 216859		<b>M22S-WR-X91</b> 216860	
	┘ 60°		* = With customized Label Editor inscription → Page 74	–	<b>M22-WR-*</b> 226836		<b>M22S-WR-*</b> 226837	
<b>With thumb-grip</b> 	▷ 40°	–	–	–	<b>M22-WK</b> 216865	5 units	<b>M22S-WK</b> 216866	5 units
	┘ 60°	–	–	–	<b>M22-WRK</b> 216867	10 units	<b>M22S-WRK</b> 216869	10 units
	┘ 60°	–	–	–	<b>M22-WRK-GVP</b> 216868	50 units		50 units
<b>With thumb-grip, V configuration</b> 	┘ 60°	–	–	–	<b>M22-WKV</b> 216874	5 units	<b>M22S-WKV</b> 216875	5 units

#### 3 positions







With plunger bridge → Page 74

<b>With rotary head</b> 	40° ↙ 40°		–	–	<b>M22-W3</b> 216861	5 units	<b>M22S-W3</b> 216862	5 units
	60° ↘ 60°		–	–	<b>M22-WR3</b> 216863		<b>M22S-WR3</b> 216864	
	60° ↘ 60°		AUTO 0 MAN.	–	<b>M22-WR3-X94</b> 226838		<b>M22S-WR3-X94</b> 226839	
	60° ↘ 60°		* = With customized Label Editor inscription → Page 74	–	<b>M22-WR3-*</b> 226840		<b>M22S-WR3-*</b> 226841	
<b>With thumb-grip</b> 	40° ↙ 40°	–	–	–	<b>M22-WK3</b> 216870	5 units	<b>M22S-WK3</b> 216871	5 units
	60° ↘ 60°	–	–	–	<b>M22-WRK3</b> 216872		<b>M22S-WRK3</b> 216873	
	–	–	–	–	<b>M22-WRK3-*)</b> 217436		<b>M22S-WRK3-*)</b> 217437	

#### 4 positions

Not compatible with configuration adapters

Use mounting adapter M22-A4 → Page 48, Legend plates → Page 32

<b>With rotary head</b> 	45°		–		<b>M22-WR4</b> 279419	5 units	<b>M22S-WR4</b> 279430	5 units
<b>With thumb-grip</b> 	45°		–		<b>M22-WRK4</b> 279431	5 units	<b>M22S-WRK4</b> 279432	5 units

#### Notes

<sup>1)</sup> \* can be replaced with a 1 or 2:

\* = 1: for 60° ↘ 40°

\* = 2: for 40° ↙ 60°

Action:	Key withdrawable at position	Part no. Article no.	Std. pack	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
↳ = Momentary (MO)						
└ = Maintained (MA)						



**Key-operated buttons for individual lock mechanisms, IP66**

Gold-plated bezel → Page 69  
 Not suitable for master key systems  
 With 1 key  
 Maintained/momentary action and key withdraw can be changed with configuration adapters → Page 30

**2 positions**

MS1 lock mechanism	↳ 40°	–	0	–	<b>M22-WS</b> 216881	1 unit	<b>M22S-WS</b> 216882	1 unit
	└ 60°	–	0	I	<b>M22-WRS</b> 216887	5 units	<b>M22S-WRS</b> 216889	5 units
	└ 60°	–	0	I	<b>M22-WRS-GVP</b> 216888	25 units		
	└ 60°	–	0	–	<b>M22-WRS-A1</b> 229092	5 units	<b>M22S-WRS-A1</b> 229093	5 units
MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	↳ 40°	–	0	–	<b>M22-WS-MS*<sup>1)</sup></b> 216883	1 unit	<b>M22S-WS-MS*<sup>1)</sup></b> 216884	1 unit
	└ 60°	–	0	I	<b>M22-WRS-MS*<sup>1)</sup></b> 216890	1 unit	<b>M22S-WRS-MS*<sup>1)</sup></b> 216891	1 unit
	└ 50°	–	0	–	<b>M22-WRS-MS*-A1<sup>1)</sup></b> 217440	5 units	<b>M22S-WRS-MS*-A1<sup>1)</sup></b> 217441	5 units

**3 positions**

With plunger bridge → Engineering, Page 74

MS1 lock mechanism	40° ↘ 40°	–	0	–	<b>M22-WS3</b> 216894	1 unit	<b>M22S-WS3</b> 216895	1 unit
	60° ↓ 60°	I	0	II	<b>M22-WRS3</b> 216900	5 units	<b>M22S-WRS3</b> 216901	5 units
	60° ↓ 60°	I	0	II	<b>M22-WRS3-GVP</b> 216902	25 units		
	↓	Selectable <sup>2)</sup>	–	–	<b>M22-WRS3-A*<sup>1)4)</sup></b> 229094	5 units	<b>M22S-WRS3-A*<sup>1)4)</sup></b> 229095	5 units
MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	Selectable	Selectable <sup>2)</sup>	–	–	<b>M22-WRS3-MS*-A*<sup>1)2)</sup></b> 217442	5 units	<b>M22S-WRS3-MS*-A*<sup>1)2)</sup></b> 217443	5 units
	40° ↘ 40°	–	0	–	<b>M22-WS3-MS*<sup>1)</sup></b> 216896	1 unit	<b>M22S-WS3-MS*<sup>1)</sup></b> 216897	1 unit
	60° ↓ 60°	I	0	II	<b>M22-WRS3-MS*<sup>1)</sup></b> 216903	1 unit	<b>M22S-WRS3-MS*<sup>1)</sup></b> 216904	1 unit

**2 or 3 positions**

MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	Selectable	Selectable	–	–	<b>M22-WRS*-MS*<sup>1)3)</sup></b> 262521	1 unit		
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**Individual keys**

Spare key for AUTO - OFF/RESET - MANUAL key-operated switches

For MS1 lock mechanism	<b>M22-ES-MS1</b> 216416	5 units
For MS2 – MS20 lock mechanism	<b>M22-ES-MS*</b> 216417	1 unit

**Notes**

- <sup>1)</sup> Delivery: 4 weeks after the order is received by the factory
- <sup>2)</sup> Example: M22(S)-WRS3-MS\*-A\*  
 MS\*: \* = MS2 - MS20 (individual lock mechanism number)  
 A\*: \* = 1, action: ↓, withdrawable in switch position 0  
 \* = 2, action: ↓, withdrawable in contactor state I, 0  
 \* = 3, action: ↓, withdrawable in contactor state 0, II  
 \* = 4, action: ↓, withdrawable in switch positions I, 0  
 \* = 5, action: ↓, withdrawable in switch position 0  
 \* = 6, action: ↓, withdrawable in switch positions 0, II  
 \* = 7, action: ↓, withdrawable in switch position 0  
 \* = 10, action: ↓, withdrawable in switch positions I, II
- <sup>3)</sup> Example: M22(S)-WRS\*-MS\*  
 WRS\*: \* = 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)  
 MS\*: \* = MS2 - MS20 (individual lock mechanism number)  
 -\*: \* = Customized inscription with Label Editor; replace \* with the automatically assigned filename (→ Engineering, Page 74) or "blank" if no inscription is required
- <sup>4)</sup> Version A10 cannot be selected.



#### M22 – Key-operated buttons, configuration kit

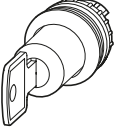
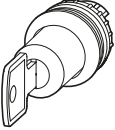
1

Action:	Key withdrawable at position	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
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
- ↳ = Momentary (MO)
- └ = Maintained (MA)

#### Key-operated buttons for master key systems, IP66

Gold-plated bezel → Page 69  
With 2 keys

2 positions					
	↳ 40°	0	<b>M22-WS-SA(*)-*</b> 216885	5 units	<b>M22S-WS-SA(*)-*</b> 216886
	└ 60°	0	<b>M22-WRS-SA(*)-*</b> 216892		<b>M22S-WRS-SA(*)-*</b> 216893
	↳ 60°	0 I	<b>M22-WRS-SA(*)-*-A8</b> 285537		<b>M22S-WRS-SA(*)-*-A8</b> 285538
	60° ↓ 60°	I 0 II	<b>M22-WRS3-SA(*)-*-A9</b> 285539		<b>M22S-WRS3-SA(*)-*-A9</b> 285581
	40° ↙ 40°	0	<b>M22-WS3-SA(*)-*</b> 216898		<b>M22S-WS3-SA(*)-*</b> 216899
	60° ↓ 60°	0	<b>M22-WRS3-SA(*)-*</b> 216905		<b>M22S-WRS3-SA(*)-*</b> 216906

#### Individual keys for master key systems


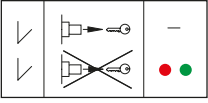

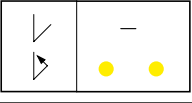
	0	<b>M22-ES-SA(*)-*</b> 217444	10 units	
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**Notes** Master key systems: Delivery will take 4 to 6 weeks after the order is received at the factory  
To order, use form MZ047002ZU (formerly F0276) → Data sheet in online catalog

Action	Part no. Article no.	Std. pack
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#### Configuration kit

Not for key-operated buttons for master key systems

For converting the key withdraw → Page 74			50°	<b>M22-XC-R</b> 216406	10 units
For converting between maintained and momentary action → Page 74			40°	<b>M22-XC-Y</b> 216407	10 units



Text	Action:	For use with	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
	↘ = Momentary (MO)					
	└ = Maintained (MA)					



**Joysticks, IP66**

Gold-plated bezel → Page 69, use M22-A4 adapter  
One operating point per operating direction

2 positions	↘	–	<b>M22-WJ2H</b> 289195	1 unit	<b>M22S-WJ2H</b> 289197	1 unit
	↙	–	<b>M22-WJS2H<sup>1)</sup></b> 178570			
	—	–	<b>M22-WR2H</b> 289199		<b>M22S-WR2H</b> 289241	
	—	–	<b>M22-WRJS2H<sup>1)</sup></b> 178574			
	└↘	–	<b>M22-WJ2V</b> 289196		<b>M22S-WJ2V</b> 289198	
	└↙	–	<b>M22-WJS2V<sup>1)</sup></b> 178571			
	└—	–	<b>M22-WRJ2V</b> 289240		<b>M22S-WRJ2V</b> 289242	
	└—	–	<b>M22-WRJS2V<sup>1)</sup></b> 178575			
4 positions	+	–	<b>M22-WR4</b> 279415	5 units	<b>M22S-WR4</b> 279416	5 units
	+	–	<b>M22-WRJS4<sup>1)</sup></b> 178566			
	↔	–	<b>M22-WJ4</b> 279417		<b>M22S-WJ4</b> 279418	
	↔	–	<b>M22-WJS4<sup>1)</sup></b> 178568			



**Joysticks with two operating points per operating direction**

These joysticks are combined with M22-K10 normal N/O and M22-K10P early-make contacts.

2 positions	↘↙	–	<b>M22-WJ2H-2P</b> 111508	1 unit		
	↘↙	–	<b>M22-WJS2H-2P<sup>1)</sup></b> 178565			
	└↘	–	<b>M22-WJ2V-2P</b> 111507			
	└↘	–	<b>M22-WJS2V-2P<sup>1)</sup></b> 178564			
4 positions	↔↕	–	<b>M22-WJ4-2P</b> 110836			
	↔↕	–	<b>M22-WJS4-2P<sup>1)</sup></b> 178563			

**Notes** <sup>1)</sup> With metal shaft

-\*-\*: \* B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow  
Specify colors clockwise, starting at 12 o'clock



-\*-\*: \* = Filename assigned by Label Editor  
→ Engineering, Page 74

### M22 – 4-way pushbuttons, legend plates

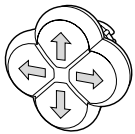
Text	Action:	For use with	Silver bezel	Std. pack	Black bezel	Std. pack
			Part no. Article no.		Part no. Article no.	
	↳ = Momentary (MO) └ = Maintained (MA)					

#### Pushbuttons, IP66, 4-way

**Opposing buttons not mechanically interlocked**



No inscription, black pushbuttons	↕	–	<b>M22-D4-S</b> 279411	5 units	<b>M22S-D4-S</b> 279412	5 units
Custom inscription and pushbutton color → Notes	↕	–	<b>M22-D4-**-*</b> 279413		<b>M22S-D4-**-*</b> 279414	



White arrows, black pushbuttons	↕	–	<b>M22-D4-S-X7</b> 286336		<b>M22S-D4-S-X7</b> 286337	
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**Opposing pushbuttons mechanically interlocked**



White arrows, black pushbuttons	↕	–	<b>M22-D14-S-X7</b> 286338		<b>M22S-D14-S-X7</b> 286339	
Customized pushbutton inscription and color, → Notes	↕	–	<b>M22-D14-**-*</b> 286340		<b>M22S-D14-**-*</b> 286341	

**Notes**

<sup>1)</sup> With metal shaft

-\*-\*: \* B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow  
Specify colors clockwise, starting at 12 o'clock



-\*-\*: \* = Filename assigned by Label Editor  
→ Engineering, Page 74

Inscription	For use with	Silver bezel Part no. Article no.	Std. pack
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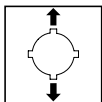
#### Legend plates



No inscription	Joysticks 4-way selector switches	<b>M22-XCK</b> 279433	10 units
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4 direction arrows	Joysticks 4-way selector switches	<b>M22-XCK1</b> 279434	
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2 direction arrows, can be turned 90°	2-position joysticks	<b>M22-XCK3</b> 290260	
--	----------------------	---------------------------	--



0-1-0-2-0-3-0-4	4-way selector switches	<b>M22-XCK2</b> 279435	
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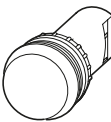
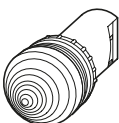
With customized Label Editor inscription → Engineering, Page 74	Joysticks 4-way selector switches	<b>M22-XCK-*</b> 279436	
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**Notes**

-\*-\*: \* B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow  
Specify colors clockwise, starting at 12 o'clock

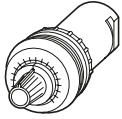


-\*-\*: \* = File name generated by Label editor  
→ Engineering, Page 74

	Color		Style	Degree of protection	Part no. Article no.	Std. pack	
<b>Indicator lights</b>							
LEDs for indicator lights → Page 51 ff.							
	○	White	Flush	IP67, IP69K	<b>M22-L-W</b> 216771	10 units	
	●	Red	Flush	IP67, IP69K	<b>M22-L-R</b> 216772		
	●	Green	Flush	IP67, IP69K	<b>M22-L-G</b> 216773		
	●	Yellow	Flush	IP67, IP69K	<b>M22-L-Y</b> 216774		
	●	Blue	Flush	IP67, IP69K	<b>M22-L-B</b> 216775		
	●	Orange	Flush	IP67, IP69K	<b>M22-L-A</b> 164374		
	–	Without lens <sup>1)</sup>	Flush	IP67, IP69K	<b>M22-L-X</b> 216776		
	–	Without lens <sup>1)</sup>	Flush	IP67, IP69K	<b>M22-L-X-GVP</b> 216777	50 units	
	○	White	Extended, conical	IP67, IP69K	<b>M22-LH-W</b> 216778	10 units	
	●	Red	Extended, conical	IP67, IP69K	<b>M22-LH-R</b> 216779		
	●	Green	Extended, conical	IP67, IP69K	<b>M22-LH-G</b> 216780		
	●	Yellow	Extended, conical	IP67, IP69K	<b>M22-LH-Y</b> 216781		
	●	Blue	Extended, conical	IP67, IP69K	<b>M22-LH-B</b> 216782		
	●	Orange	Extended, conical	IP67, IP69K	<b>M22-LH-A</b> 164375		
	<b>Conical BA 9s indicator lights</b>						
		Can be installed in M20/M25 knockout in base For incandescent and neon lamps of up to 2.4 W					
●		Red	Conical	IP67, IP69K	<b>L-R</b> 208689	1 unit	
●		Green	Conical	IP67, IP69K	<b>L-G</b> 208690		
●		Yellow	Conical	IP67, IP69K	<b>L-Y</b> 208691		
○		White	Conical	IP67, IP69K	<b>L-W</b> 208692		
<b>Compact indicator lights</b>							
Without lamp For incandescent lamps, neon lamps, and LEDs of up to 2.4 W With BA 9s lamp socket							
	○	White	Flush	IP67, IP69K	<b>M22-LC-W</b> 216907	10 units	
	●	Red	Flush	IP67, IP69K	<b>M22-LC-R</b> 216908		
	●	Green	Flush	IP67, IP69K	<b>M22-LC-G</b> 216909		
	●	Yellow	Flush	IP67, IP69K	<b>M22-LC-Y</b> 216910		
	●	Blue	Flush	IP67, IP69K	<b>M22-LC-B</b> 216911		
	–	Without lens <sup>1)</sup>	Flush	IP67, IP69K	<b>M22-LC-X</b> 216912		
	○	White	Extended, conical	IP67, IP69K	<b>M22-LCH-W</b> 216914		
	●	Red	Extended, conical	IP67, IP69K	<b>M22-LCH-R</b> 216915		
	●	Green	Extended, conical	IP67, IP69K	<b>M22-LCH-G</b> 216916		
	●	Yellow	Extended, conical	IP67, IP69K	<b>M22-LCH-Y</b> 216917		
	●	Blue	Extended, conical	IP67, IP69K	<b>M22-LCH-B</b> 216918		

Notes <sup>1)</sup> Lenses for indicator lights → Page 62

Contact sequence	Resistance R kΩ	Silver bezel	Std. pack	Black bezel	Std. pack
		Part no. Article no.		Part no. Article no.	



#### Potentiometers, IP66

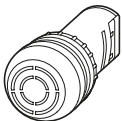
Gold-plated bezel → Page 69  
 3 separate screw connections,  $P_{max} = 0.5 \text{ W}$   
 Accuracy of resistance value:  $\pm 10\%$  (linear)  
 M22...RH with large knob

	1	<b>M22-R1K</b> 229489	1 unit	<b>M22S-R1K</b> 232231	1 unit
	2.2	<b>M22-R2K2</b> 171157			
	4.7	<b>M22-R4K7</b> 229490		<b>M22S-R4K7</b> 232232	
	10	<b>M22-R10K</b> 229491		<b>M22S-R10K</b> 232233	
	47	<b>M22-R47K</b> 229492		<b>M22S-R47K</b> 232234	
	100	<b>M22-R100K</b> 229493		<b>M22S-R100K</b> 232235	
	470	<b>M22-R470K</b> 229494		<b>M22S-R470K</b> 232236	
	Selectable → Notes <sup>1)</sup>	<b>M22-R*.*</b> 263371		<b>M22S-R*.*</b> 263372	
	Selectable → Notes <sup>1)</sup>	<b>M22-R*.*-RH</b> 288863			

#### Notes

<sup>1)</sup> The following information must be added to the part no. when ordering:

- 1st asterisk  $\triangle$  Resistance
- 2nd asterisk  $\triangle$  Standard scale/inscription
- \* - \* : \* = Available resistance values:
  - 1K = 1 kΩ
  - 2K2 = 2.2 kΩ
  - 4K7 = 4.7 kΩ
  - 10K = 10 kΩ
  - 22K = 22 kΩ
  - 47K = 47 kΩ
  - 100K = 100 kΩ
  - 470K = 470 kΩ
  - 1M = 1 MΩ
- \* - \* : \* = Standard scale/inscription: X1000  
 No scale/inscription: "blank"



#### Compact acoustic device, IP40

Black front, without buzzer, with BA 9s lamp socket

Part no. Article no.	Std. pack
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<b>M22-AMC</b> 229015	1 unit
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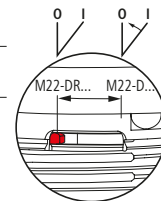
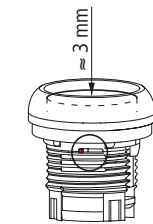


#### Buzzer for acoustic device

For BA 9s socket  
 83 dB/10 cm,  
 18 - 30 mA,  
 Positive pin at X1,  
 f = 2300 Hz



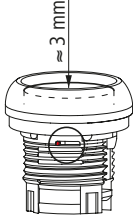
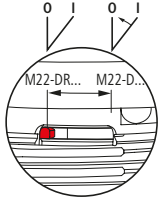










Continuous tone, 18 - 30 V DC	<b>M22-XAM</b> 229025	1 unit
Pulse tone, 24 V DC (+10%/-15%)	<b>M22-XAMP</b> 229028	1 unit

Color	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack	Notes		
<b>Illuminated pushbutton actuators, IP67, IP69K</b>						
Gold-plated bezel → Page 69						
<b>Flush Momentary</b> 		<b>M22-DL-W</b> 216922	<b>M22S-DL-W</b> 216924	10 units	–	
		<b>M22-DL-R</b> 216925	<b>M22S-DL-R</b> 216926			
		<b>M22-DL-G</b> 216927	<b>M22S-DL-G</b> 216928			
		<b>M22-DL-Y</b> 216929	<b>M22S-DL-Y</b> 216930			
		<b>M22-DL-B</b> 216931	<b>M22S-DL-B</b> 216932			
		<b>M22-DL-A</b> 167429	<b>M22S-DL-A</b> 167430			
	–	<b>M22-DL-X</b> 216933	<b>M22S-DL-X</b> 216935			
	–	<b>M22-DL-X-GVP</b> 216934		50 units		
		<b>M22-DL-R-X0</b> 216936	<b>M22S-DL-R-X0</b> 216937	10 units		
		<b>M22-DL-G-X1</b> 216938	<b>M22S-DL-G-X1</b> 216939			
		<b>M22-DL-W-X0</b> 216940	<b>M22S-DL-W-X0</b> 216941			
		<b>M22-DL-W-X1</b> 216942	<b>M22S-DL-W-X1</b> 216943			
	<b>Flush Maintained</b> 		<b>M22-DRL-W</b> 216944	<b>M22S-DRL-W</b> 216945	5 units	Programmable maintained/ momentary pushbutton action
			<b>M22-DRL-R</b> 216946	<b>M22S-DRL-R</b> 216947		
		<b>M22-DRL-G</b> 216948	<b>M22S-DRL-G</b> 216949			
		<b>M22-DRL-Y</b> 216950	<b>M22S-DRL-Y</b> 216951			
		<b>M22-DRL-B</b> 216952	<b>M22S-DRL-B</b> 216953			
		<b>M22-DRL-A</b> 167431				
–		<b>M22-DRL-X</b> 216954	<b>M22S-DRL-X</b> 216956			
–		<b>M22-DRL-X-GVP</b> 216955		50 units		
		<b>M22-DRL-R-X0</b> 216957	<b>M22S-DRL-R-X0</b> 216958	5 units		
		<b>M22-DRL-G-X1</b> 216959	<b>M22S-DRL-G-X1</b> 216960			
		<b>M22-DRL-W-X0</b> 216961	<b>M22S-DRL-W-X0</b> 216962			
		<b>M22-DRL-W-X1</b> 216963	<b>M22S-DRL-W-X1</b> 216964			
<b>Extended Momentary</b> 			<b>M22-DLH-W</b> 216965	<b>M22S-DLH-W</b> 216966	5 units	
			<b>M22-DLH-R</b> 216967	<b>M22S-DLH-R</b> 216968		
		<b>M22-DLH-G</b> 216969	<b>M22S-DLH-G</b> 216970			
		<b>M22-DLH-Y</b> 216971	<b>M22S-DLH-Y</b> 216972			
		<b>M22-DLH-B</b> 216973	<b>M22S-DLH-B</b> 216974			
		<b>M22-DLH-A</b> 167433	<b>M22S-DLH-A</b> 167434			
		<b>M22-DLH-R-X0</b> 216975	<b>M22S-DLH-R-X0</b> 216976			
		<b>M22-DLH-G-X1</b> 216977	<b>M22S-DLH-G-X1</b> 216978			
		<b>M22-DLH-W-X0</b> 216979	<b>M22S-DLH-W-X0</b> 216980			
		<b>M22-DLH-W-X1</b> 216981	<b>M22S-DLH-W-X1</b> 216982			



#### M22 – Illuminated pushbuttons

1

Color	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack	Notes	
<b>Illuminated pushbutton actuators, IP67, IP69K</b>					
Gold-plated bezel → Page 69					
<b>Extended Maintained</b> 		<b>M22-DRLH-W</b> 216788	<b>M22S-DRLH-W</b> 216791	5 units	Programmable maintained/ momentary pushbutton action  
		<b>M22-DRLH-R</b> 216789	<b>M22S-DRLH-R</b> 216792		
		<b>M22-DRLH-G</b> 216796	<b>M22S-DRLH-G</b> 216798		
		<b>M22-DRLH-Y</b> 216799	<b>M22S-DRLH-Y</b> 216801		
		<b>M22-DRLH-B</b> 216802	<b>M22S-DRLH-B</b> 216803		
		<b>M22-DRLH-A</b> 167435			
		<b>M22-DRLH-R-X0</b> 216804	<b>M22S-DRLH-R-X0</b> 216808		
		<b>M22-DRLH-G-X1</b> 216805	<b>M22S-DRLH-G-X1</b> 216809		
		<b>M22-DRLH-W-X0</b> 216806	<b>M22S-DRLH-W-X0</b> 216810		
		<b>M22-DRLH-W-X1</b> 216807	<b>M22S-DRLH-W-X1</b> 216811		
<b>With guard ring Momentary</b> 	-	<b>M22-DGL-X</b> 230961	5 units		

Action:	Color	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
▷ = Momentary (MO)				
∨ = Maintained (MA)				

**Illuminated selector switches, thumb-grip, IP66**

Gold-plated bezel → Page 69  
 Maintained/momentary action can be changed with M22-XC-Y → Engineering, Page 74

**2 positions**

**Momentary**



▷ 40°	○	White	<b>M22-WLK-W</b> 216812	<b>M22S-WLK-W</b> 216813	5 units
▷ 40°	●	Red	<b>M22-WLK-R</b> 216814	<b>M22S-WLK-R</b> 216815	
▷ 40°	●	Green	<b>M22-WLK-G</b> 216816	<b>M22S-WLK-G</b> 216817	
▷ 40°	●	Yellow	<b>M22-WLK-Y</b> 216818	<b>M22S-WLK-Y</b> 216819	
▷ 40°	●	Blue	<b>M22-WLK-B</b> 216820	<b>M22S-WLK-B</b> 216821	

**Maintained**



∨ 60°	○	White	<b>M22-WRLK-W</b> 216823	<b>M22S-WRLK-W</b> 216824	5 units
∨ 60°	●	Red	<b>M22-WRLK-R</b> 216825	<b>M22S-WRLK-R</b> 216826	
∨ 60°	●	Green	<b>M22-WRLK-G</b> 216827	<b>M22S-WRLK-G</b> 216828	
∨ 60°	●	Yellow	<b>M22-WRLK-Y</b> 216829	<b>M22S-WRLK-Y</b> 216830	
∨ 60°	●	Blue	<b>M22-WRLK-B</b> 216831	<b>M22S-WRLK-B</b> 216832	

**3 positions**

**Momentary**



40° ↕ 40°	○	White	<b>M22-WLK3-W</b> 216833	<b>M22S-WLK3-W</b> 216834	5 units
40° ↕ 40°	●	Red	<b>M22-WLK3-R</b> 216835	<b>M22S-WLK3-R</b> 216836	
40° ↕ 40°	●	Green	<b>M22-WLK3-G</b> 216837	<b>M22S-WLK3-G</b> 216838	
40° ↕ 40°	●	Yellow	<b>M22-WLK3-Y</b> 216839	<b>M22S-WLK3-Y</b> 216840	
40° ↕ 40°	●	Blue	<b>M22-WLK3-B</b> 216841	<b>M22S-WLK3-B</b> 216842	

**Maintained**



60° ∨ 60°	○	White	<b>M22-WRLK3-W</b> 216843	<b>M22S-WRLK3-W</b> 216844	5 units
60° ∨ 60°	●	Red	<b>M22-WRLK3-R</b> 216845	<b>M22S-WRLK3-R</b> 216846	
60° ∨ 60°	●	Green	<b>M22-WRLK3-G</b> 216847	<b>M22S-WRLK3-G</b> 216848	
60° ∨ 60°	●	Yellow	<b>M22-WRLK3-Y</b> 216849	<b>M22S-WRLK3-Y</b> 216850	
60° ∨ 60°	●	Blue	<b>M22-WRLK3-B</b> 216851	<b>M22S-WRLK3-B</b> 216852	
Selectable	Selectable → Notes		<b>M22-WRLK3-*/*</b> 217438	<b>M22S-WRLK3-*/*</b> 217439	

**V configuration**



∨ 60°	○	White	<b>M22-WLKV-W</b> 284393	<b>M22S-WLKV-W</b> 284398	5 units
∨ 60°	●	Red	<b>M22-WLKV-R</b> 284394	<b>M22S-WLKV-R</b> 284399	
∨ 60°	●	Green	<b>M22-WLKV-G</b> 284395	<b>M22S-WLKV-G</b> 284540	
∨ 60°	●	Yellow	<b>M22-WLKV-Y</b> 284396	<b>M22S-WLKV-Y</b> 284543	
∨ 60°	●	Blue	<b>M22-WLKV-B</b> 284397	<b>M22S-WLKV-B</b> 284544	

**Notes**

Example: M22-WRLK3-\*/\*  
 \*/\*: \* = 1 for ∨ or 2 for ↕  
 \*/\*: \* = Color

# 1.5

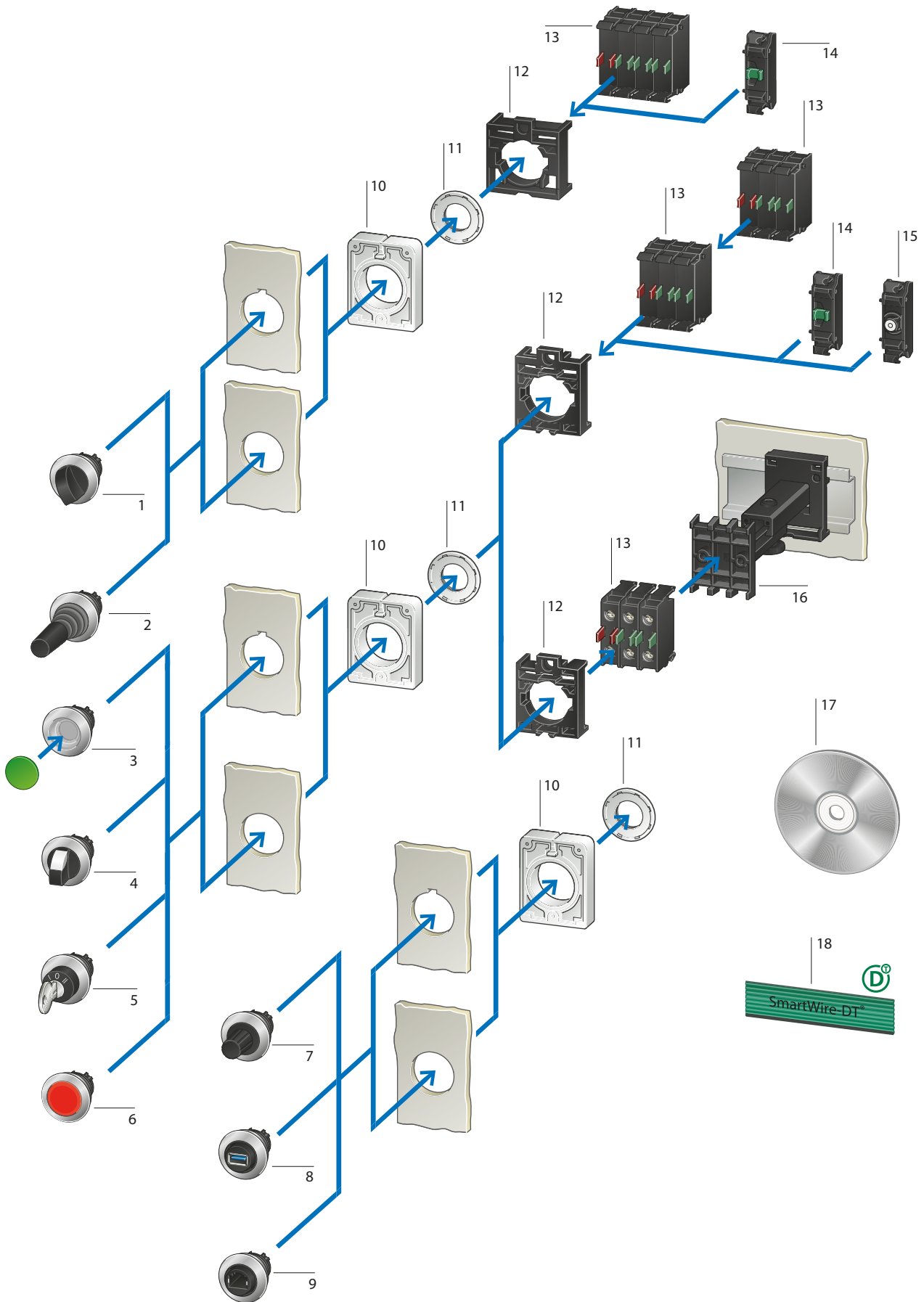
## RMQ-Titan pilot devices

M30 – Flat Front – System overview

Moeller series

### 1

### System overview

































<b>M30 4-way selector switches</b>	<b>1</b>
4 positions	
With rotary head or thumb-grip	
0-1-0-2-0-3-0-4 maintained action	
→ Page 41	
<b>M30 joysticks</b>	<b>2</b>
2 or 4 positions	
→ Page 44	
<b>M30 pushbuttons</b>	<b>3</b>
Momentary and maintained	
Flush	
Colors: white, green, red, yellow, blue, black	
Illuminated pushbutton actuators	
Colors: white, green, red, yellow, blue, orange	
→ Page 40	
<b>M30 selector switches</b>	<b>4</b>
2 and 3 positions	
With rotary head, thumb-grip	
Programmable maintained/momentary action	
Illuminated selector switches with transparent thumb-grip	
Colors: white, green, red, yellow, blue	
→ Page 41	
<b>M30 key-operated buttons</b>	<b>5</b>
For individual lock mechanisms	
2 or 3 positions	
Programmable momentary/maintained action and key withdraw	
Suitable for master key systems	
→ Page 42	
<b>M30 indicator lights</b>	<b>6</b>
Colors: white, green, red, yellow, blue, orange	
→ Page 44	
<b>SmartWire-DT encoders, M30 potentiometers</b>	<b>7</b>
Resistances of 1 kΩ - 1 MΩ	
3 individual connections	
→ Page 47	

<b>M30 panel mount connectors</b>	<b>8</b>
USB 3.0	
→ Page 71	
<b>M30 panel mount connectors</b>	<b>9</b>
RJ45	
→ Page 71	
<b>RMQ-AFX</b>	<b>10</b>
Anti-rotation tab	
Included with the equipment supplied with M30 front elements	
<b>Threaded rings</b>	<b>11</b>
→ Page 70	
<b>Mounting adapters</b>	<b>12</b>
For flush mounting	
For contact and LED elements	
→ Page 48	
<b>Contact elements</b>	<b>13</b>
N/C and N/O	
Universal contacts suitable for use with electronic devices	
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	
Max. 2 levels, each with 3 contact elements	
→ Page 48	
<b>Flat Rear contact elements</b>	<b>14</b>
Cage Clamp with push-in terminals	
→ Page 53	
<b>Flat Rear LED elements</b>	<b>15</b>
Cage Clamp with push-in terminals	
→ Page 53	

<b>Telescopic clip</b>	<b>16</b>
For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets	
→ Page 69	
<b>Convenient labeling</b>	<b>17</b>
A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.	
Download:	
<a href="http://www.eaton.eu/config/rmq">www.eaton.eu/config/rmq</a>	
Keyword: "Pushbutton Configurator	
→ Label Editor function"	
<b>SmartWire-DT</b>	<b>18</b>
<b>Product characteristics</b>	
<ul style="list-style-type: none"> <li>• Clip-fit assembly modular system</li> <li>• Metal bezel, flush</li> <li>• Mounting hole diameter: 30.5 mm</li> <li>• Minimum grid dimension: 40 x 50 mm</li> <li>• Min. degree of protection: IP66</li> <li>• Up to 6 contacts per mounting location</li> <li>• For switching differing potentials</li> <li>• Approved throughout the world</li> </ul>	

## 1

## Product selection

	Button plate	Part no. Article no.	Std. pack
<b>Pushbuttons</b>			
IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush			
<b>Momentary</b> 		<b>M30C-FD-S</b> 182959	1 unit
		<b>M30C-FD-W</b> 182960	
		<b>M30C-FD-R</b> 182918	
		<b>M30C-FD-G</b> 182919	
		<b>M30C-FD-Y</b> 182920	
		<b>M30C-FD-B</b> 182921	
		<b>M30C-FD-GR</b> 182923	
		<b>M30C-FD-S-X0</b> 182961	
		<b>M30C-FD-W-X1</b> 182962	
		<b>M30C-FD-W-X11</b> 182963	
		<b>M30C-FD-R-X0</b> 182939	
		<b>M30C-FD-G-X1</b> 182956	
		<b>M30C-FD-B-X217</b> 182967	
		<b>M30C-FD-GR-X66</b> 182964	
<b>Momentary</b> 	Without button plate	<b>M30C-FD-X</b> 182922	1 unit
<b>Maintained<sup>1)</sup></b> 		<b>M30C-FDR-S</b> 182942	1 unit
		<b>M30C-FDR-W</b> 182943	
		<b>M30C-FDR-R</b> 182944	
		<b>M30C-FDR-G</b> 182945	
		<b>M30C-FDR-Y</b> 182946	
		<b>M30C-FDR-B</b> 182947	
		<b>M30C-FDR-S-X0</b> 182937	
		<b>M30C-FDR-W-X1</b> 182938	
		<b>M30C-FDR-R-X0</b> 182936	
		<b>M30C-FDR-G-X1</b> 182931	
<b>Maintained<sup>1)</sup></b> 	Without button plate	<b>M30C-FDR-X</b> 182948	1 unit

## Notes








<sup>1)</sup> Maintained/momentary action can be changed on device

Action:	Button plate	Part no.	Std. pack	Ordering notes
↳ = Momentary (MO)		Article no.		
└ = Maintained (MA)				







**Selector switches**

IP66  
 Metal bezel  
 Front dimensions: 36 mm diameter  
 Maintained/momentary action can be changed with M22-XC-Y configuration adapters







**2 positions**

<b>With rotary head</b> 	↳ 40°		<b>M30C-FW</b> 187087	1 unit	
	└ 60°		<b>M30C-FWR</b> 187088		
	└ 60°	AUTO HAND 	<b>M30C-FWR-X91</b> 187113		
	└ 60°		<b>M30C-FWR-X92</b> 187114		
	└ 60°	Customized inscription available	<b>M30C-FWR-*</b> 187105		* = With customized Label Editor inscription → Page 74
<b>With thumb-grip</b> 	↳ 40°		<b>M30C-FWK</b> 187103	1 unit	
	└ 60°		<b>M30C-FWRK</b> 187109		
<b>With thumb-grip</b> 	✓ 60°		<b>M30C-FWKV</b> 187102	1 unit	

**3 positions<sup>1)</sup>**

<b>With rotary head</b> 	40° ↘ 40°		<b>M30C-FW3</b> 187089	1 unit	
	60° ↓ 60°		<b>M30C-FWR3</b> 187090		
	60° ↓ 60°		<b>M30C-FWR3-X7</b> 187107		
	60° ↓ 60°		<b>M30C-FWR3-X94</b> 187108		
	60° ↓ 60°	Customized inscription available	<b>M30C-FWR3-*</b> 187106		* = With customized Label Editor inscription → Page 74
<b>With thumb-grip</b> 	40° ↘ 40°		<b>M30C-FWK3</b> 187104	1 unit	
	60° ↓ 60°		<b>M30C-FWRK3</b> 187110		
	Selectable		<b>M30C-FWRK3-*</b> 187111		* = MAMO (for 60° ↓ 40°) or MOMA (for 40° ↘ 60°)

**4 positions<sup>2), 3)</sup>**

<b>With rotary head</b> 			<b>M30C-FWR4</b> 187091	1 unit	
<b>With thumb-grip</b> 			<b>M30C-FWRK4</b> 187112	1 unit	

**Notes**  
<sup>1)</sup> With plunger bridge for middle contact  
<sup>2)</sup> Not compatible with configuration adapters  
<sup>3)</sup> Use M22-A4 mounting adapter → Page 69

Action:	Lock mechanism	Key withdrawable at position	Information about equipment supplied	Part no. Article no.	Std. pack
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▷ = Momentary (M0)  
 ↓ = Maintained (MA)

#### Key-operated buttons for individual lock mechanisms

IP66  
 Metal bezel  
 Front dimensions: 36 mm diameter  
 Maintained/momentary action can be changed with M22-XC-Y configuration adapters  
 Key withdraw can be changed with M22-XC-... configuration adapters

#### 2 positions



▷ 40°		0	-	-	With 1 key	<b>M30C-FWS</b> 187068	1 unit
↓ 60°		0	-	I		<b>M30C-FWRS</b> 187092	
↓ 60°		0	-	-		<b>M30C-FWRS-A1</b> 187047	
↓ 60°		I	-	II		<b>M30C-FWRS-X95</b> 187067	
▷ 40°	Selectable	0	-	-		<b>M30C-FWS-MS*</b> 187072	
↓ 60°	Selectable	0	-	I		<b>M30C-FWRS-MS*</b> 187048	
▷ 40°	MS2	0	-	-		<b>M30C-FWS-MS2</b> 187073	
▷ 40°	MS3	0	-	-		<b>M30C-FWS-MS3</b> 187074	
↓ 60°	MS3	0	-	I		<b>M30C-FWRS-MS3</b> 187053	
↓ 60°	MS4	0	-	I		<b>M30C-FWRS-MS4</b> 187055	
↓ 60°	MS5	0	-	I		<b>M30C-FWRS-MS5</b> 187057	
▷ 40°	MS5	0	-	-		<b>M30C-FWS-MS5</b> 187075	
↓ 60°	MS6	0	-	I		<b>M30C-FWRS-MS6</b> 187059	
↓ 60°	MS7	0	-	I		<b>M30C-FWRS-MS7</b> 187060	
↓ 60°	MS8	0	-	I		<b>M30C-FWRS-MS8</b> 187061	
↓ 60°	MS10	0	-	I		<b>M30C-FWRS-MS10</b> 187051	
↓ 60°	Selectable	0	-	-		<b>M30C-FWRS-MS*-A1</b> 187049	
↓ 60°	MS3	0	-	-		<b>M30C-FWRS-MS3-A1</b> 187054	
↓ 60°	MS4	0	-	-		<b>M30C-FWRS-MS4-A1</b> 187056	
↓ 60°	MS5	0	-	-		<b>M30C-FWRS-MS5-A1</b> 187058	
↓ 60°	MS10	0	-	-		<b>M30C-FWRS-MS10-A1</b> 187052	
↓ 60°	Selectable	-	-	I		<b>M30C-FWRS-MS*-A21-*</b> 187050	
↓ 60°	Ronis 455	0	-	I	With 2 keys	<b>M30C-FWRS-RS</b> 187062	1 unit
↓ 60°	Ronis 455	0	-	-		<b>M30C-FWRS-RS-A1</b> 187063	













Action:	Lock mechanism	Key withdrawable at position	Information about equipment supplied	Part no. Article no.	Std. pack
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 = Momentary (M0)  
 = Maintained (MA)

**Key-operated buttons for individual lock mechanisms**

**3 positions**

	40°  40°		0	-	-	With 1 key	<b>M30C-FWS3</b> 187069	1 unit
	40°  40°	Selectable	0	-	-		<b>M30C-FWS3-MS*</b> 187070	
	60°  60°		0	I	II		<b>M30C-FWRS3</b> 187094	
	60°  60°	Selectable	-	Selectable	-		<b>M30C-FWRS3-MS*-A*</b> 187096	
	60°  60°		-	Selectable	-		<b>M30C-FWRS3-A*</b> 187095	
	60°  60°	MS3	0	-	II		<b>M30C-FWRS3-MS3</b> 187097	
	60°  60°	Ronis 455	0	I	II	With 2 keys	<b>M30C-FWRS3-RS</b> 187098	1 unit
	60°  60°	Ronis 455	0	-	-		<b>M30C-FWRS3-RS-A1</b> 187099	





**2 or 3 positions**

	Selectable		-	-	-	With 1 key	<b>M30C-FWRS*-MS*-*</b> 187093	1 unit
---	------------	--	---	---	---	------------	-----------------------------------	--------





**Key-operated buttons for master key systems**

Metal bezel  
 IP66  
 Front dimensions: 36 mm diameter  
 To order, use form MZ047002ZU (formerly FO276)  
 → Data sheet in online catalog  
 Delivery will take 4 to 6 weeks after the order is received at the factory

**2 positions**




	 40°		0	-	-	With 2 keys	<b>M30C-FWS-SA(*)-*</b> 187076	1 unit
	 60°		0	-	-		<b>M30C-FWRS-SA(*)-*</b> 187064	
	 60°		0	-	I		<b>M30C-FWRS-SA(*)-A8</b> 187066	

**3 positions**

	40°  40°		0	-	-	With 2 keys	<b>M30C-FWS3-SA(*)-*</b> 187071	1 unit
	60°  60°		0	-	-		<b>M30C-FWRS3-SA(*)-*</b> 187100	
	60°  60°		0	I	II		<b>M30C-FWRS3-SA(*)-A9</b> 187101	

**Notes**


MS\*: \* = MS2, ..., MS20; (enter lock mechanism number in the part no.)


A\*: \* = 1, action: , withdrawable in position 0  
 \* = 2, action: , withdrawable in positions I, 0  
 \* = 3, action: , withdrawable in positions 0, II

\* = 4, action: , withdrawable in positions I, 0

\* = 5, action: , withdrawable in position 0

\* = 6, action: , withdrawable in positions 0, II

\* = 7, action: , withdrawable in position 0

\* = 10, action: , withdrawable in positions I, II (not for item M30C-FWRS3-A\*)

-\*: \* = Customized inscription with Label Editor; replace \* with the automatically assigned filename (→ Page 74) or "blank" if no inscription is required

WRS\*: 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)

Action:

- ▷ = Momentary (MO)
- ∟ = Maintained (MA)

Part no.

Article no.

Std. pack



#### Joysticks

With one operating point per operating direction  
 With metal shaft  
 IP66  
 Metal bezel  
 Front dimensions: 36 mm diameter

Positions	Action	Part no. Article no.	Std. pack
2 positions	—	<b>M30C-FWRJS2H</b> 187078	1 unit
2 positions		<b>M30C-FWRJS2V</b> 187065	
4 positions	↕	<b>M30C-FWJS4</b> 187077	






























#### Indicator lights

IP67, IP69K  
 Metal bezel  
 Front dimensions: 36 mm diameter

Color	Lens	Part no. Article no.	Std. pack
White	○	<b>M30C-FL-W</b> 183287	1 unit
Red	●	<b>M30C-FL-R</b> 183282	
Green	●	<b>M30C-FL-G</b> 183283	
Yellow	●	<b>M30C-FL-Y</b> 183285	
Blue	●	<b>M30C-FL-B</b> 183284	
Orange	●	<b>M30C-FL-A</b> 183286	
White	○	<b>M30C-FL-W-*</b> 183293	
Red	●	<b>M30C-FL-R-*</b> 183288	
Green	●	<b>M30C-FL-G-*</b> 183289	
Yellow	●	<b>M30C-FL-Y-*</b> 183291	
Blue	●	<b>M30C-FL-B-*</b> 183290	
Orange	●	<b>M30C-FL-A-*</b> 183292	

\* = With customized Label Editor inscription → Page 74

Button plate	Part no. Article no.	Std. pack
<b>Illuminated pushbutton actuators</b>		
IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush		
<b>Momentary</b> 	 <b>M30C-FDL-W</b> 182925	1 unit
	 <b>M30C-FDL-R</b> 182926	
	 <b>M30C-FDL-G</b> 182927	
	 <b>M30C-FDL-Y</b> 182928	
	 <b>M30C-FDL-B</b> 182940	
	 <b>M30C-FDL-A</b> 182924	
	 <b>M30C-FDL-W-X0</b> 182929	
	 <b>M30C-FDL-W-X1</b> 182930	
	 <b>M30C-FDL-W-X100</b> 182966	
	 <b>M30C-FDL-R-X0</b> 182958	
	 <b>M30C-FDL-G-X1</b> 182957	
	 <b>M30C-FDL-G-X32</b> 182968	
	 <b>M30C-FDL-Y-X162</b> 182965	
<b>Momentary</b> 	Without button plate <b>M30C-FDL-X</b> 182941	1 unit
<b>Maintained<sup>1)</sup></b> 	 <b>M30C-FDRL-W</b> 182950	1 unit
	 <b>M30C-FDRL-R</b> 182951	
	 <b>M30C-FDRL-G</b> 182952	
	 <b>M30C-FDRL-Y</b> 182953	
	 <b>M30C-FDRL-B</b> 182954	
	 <b>M30C-FDRL-A</b> 182949	
	 <b>M30C-FDRL-W-X0</b> 182934	
	 <b>M30C-FDRL-W-X1</b> 182935	
	 <b>M30C-FDRL-R-X0</b> 182933	
	 <b>M30C-FDRL-G-X1</b> 182932	
<b>Maintained<sup>1)</sup></b> 	Without button plate <b>M30C-FDRL-X</b> 182955	1 unit

**Notes** <sup>1)</sup> Maintained/momentary action can be changed on device





Resistance	Scale/inscription	Contact sequence	Part no. Article no.	Std. pack
R				
kΩ				



**Potentiometers, IP65**

3 individual screw connections  
Resistance accuracy: ±10% (linear)  
Metal bezel  
Rated power P = 0.5 W

1	Standard scale/inscription		<b>M30C-FR1K</b> 187029	1 unit
4.7			<b>M30C-FR4K7</b> 187030	
10			<b>M30C-FR10K</b> 187035	
47			<b>M30C-FR47K</b> 187031	
100			<b>M30C-FR100K</b> 187032	
470			<b>M30C-FR470K</b> 187033	
2.2			<b>M30C-FR2K2</b> 187034	
22			<b>M30C-FR22K</b> 187036	
1000			<b>M30C-FR1M</b> 187037	
1	Without scale/inscription		<b>M30C-FR1K-BLANK</b> 187038	
2.2			<b>M30C-FR2K2-BLANK</b> 187039	
4.7			<b>M30C-FR4K7-BLANK</b> 187040	
10			<b>M30C-FR10K-BLANK</b> 187041	
22			<b>M30C-FR22K-BLANK</b> 187042	
47			<b>M30C-FR47K-BLANK</b> 187043	
100			<b>M30C-FR100K-BLANK</b> 187044	
470			<b>M30C-FR470K-BLANK</b> 187045	
1000			<b>M30C-FR1M-BLANK</b> 187046	
Selectable <sup>1)</sup>	Selectable <sup>2)</sup>		<b>M30C-FR*.*</b> 187081	

**SmartWire-DT potentiometers, IP65**

Only in conjunction with M22-SWD-R function element



-	Silver bezel M22		<b>M22-R-SWD</b> 179292	1 unit
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-	Metal bezel Flat Front		<b>M30C-FR-SWD</b> 187080	1 unit
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**SmartWire-DT encoders, IP65**

With actuation function  
Only in conjunction with M22-SWD-INC function element



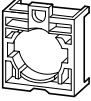
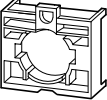
-	Silver bezel M22	-	<b>M22-INC-SWD</b> 179981	1 unit
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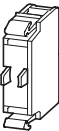

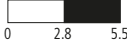



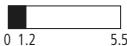


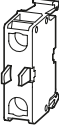



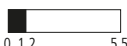
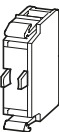






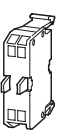



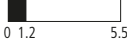


-	Metal bezel Flat Front	-	<b>M30C-FINC-SWD</b> 187079	1 unit
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**Notes**

<sup>1)</sup> Wildcard: Available resistance values:  
1K = 1 kΩ, 2K2 = 2.2 kΩ, 4K7 = 4.7 kΩ, 10K = 10 kΩ,  
22K = 22 kΩ, 47K = 47 kΩ, 100K = 100 kΩ, 470K = 470 kΩ, 1M = 1 MΩ  
<sup>2)</sup> Wildcard: Standard scale/inscription: X1000 Without scale/inscription: "-"

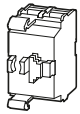
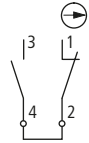
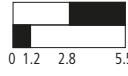

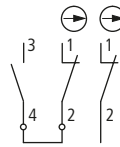


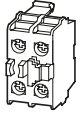
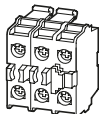
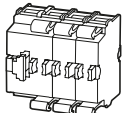
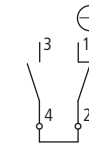

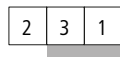
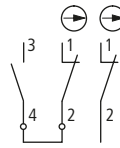

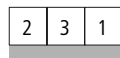
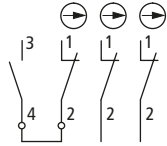
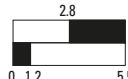
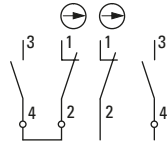
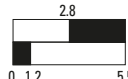
		Configuration	Part no. Article no.	Std. pack				
	Mounting adapter (front mounting) for 3 contact/LED elements For M22-(C)K... contact elements and M22-(C)LED... LED elements. Sequence numbers on mounting adapter	<table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table>	1/4	3/6	2/5	<b>M22-A</b> 216374	50 units	
	1/4	3/6	2/5					
		<b>M22-A-GVP</b> 216375	500 units					
	Mounting adapter (front mounting) for 4 contact elements, can be used with M22-WR4, M22-D4, M22-WJ..., M22-WRJ... For M22-(C)K contact elements	<table border="1"><tr><td>3</td><td>2</td><td>4</td><td>1</td></tr></table>	3	2	4	1	<b>M22-A4</b> 279437	10 units
3	2	4	1					

Terminal type	Contact configuration: ⊕ = Safety function implemented with positive opening as specified in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Std. pack				
<b>Contact elements</b>										
<b>Front mounting</b> 	Screw terminals	1 N/O			<table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table>	1/4	3/6	2/5	<b>M22-K10</b> 216376	20 units
		1/4	3/6	2/5						
	1 N/O				<b>M22-K10-GVP</b> 216377	500 units				
	1 N/O					<b>M22-K10P</b> 110835	20 units			
	1 N/C ⊕				<table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table>	1/4	3/6	2/5	<b>M22-K01</b> 216378	20 units
	1/4	3/6	2/5							
1 N/C ⊕					<b>M22-K01-GVP</b> 216379	500 units				
1 N/C ⊕					<b>M22-K01D</b> 262165	20 units				
<b>Base mounting</b> 	Screw terminals	1 N/O			<table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table>	2	3	1	<b>M22-KC10</b> 216380	20 units
		2	3	1						
	1 N/O				<b>M22-KC10-GVP</b> 216381	200 units				
	1 N/C ⊕				<table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table>	2	3	1	<b>M22-KC01</b> 216382	20 units
2	3	1								
1 N/C ⊕					<b>M22-KC01-GVP</b> 216383	200 units				
<b>Front mounting</b> 	Spring-clamp terminals	1 N/O			<table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table>	1/4	3/6	2/5	<b>M22-CK10</b> 216384	20 units
		1/4	3/6	2/5						
		1 N/C ⊕				<table border="1"><tr><td>1/4</td><td>3/6</td><td>2/5</td></tr></table>	1/4	3/6	2/5	<b>M22-CK01</b> 216385
1/4	3/6	2/5								
1 N/C ⊕					<b>M22-CK01D</b> 262510					
<b>Base mounting</b> 	Spring-clamp terminals	1 N/O			<table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table>	2	3	1	<b>M22-CKC10</b> 216386	20 units
		2	3	1						
1 N/C ⊕				<table border="1"><tr><td>2</td><td>3</td><td>1</td></tr></table>	2	3	1	<b>M22-CKC01</b> 216387	20 units	
2	3	1								

Terminal type	Contact configuration: ☉ = Safety function implemented with positive opening as specified in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Std. pack
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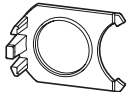
**Self-monitoring contact elements**

N/O is actuated when mounted on the pushbutton.

<b>Front mounting</b> 	Screw terminals	1 N/O 1 N/C ☉				<b>M22-K01SMC10</b> 121472	1 unit
		1 N/O 2 N/C ☉				<b>M22-K02SMC10</b> 121474	
<b>Base mounting</b>   	Screw terminals	1 N/O 1 N/C ☉				<b>M22-KC01SMC10</b> 121473	1 unit
		1 N/O 2 N/C ☉				<b>M22-KC02SMC10</b> 121720	
		1 N/O 3 N/C ☉			—	<b>M22-KC03SMC10<sup>1)</sup></b> 173028	
		2 N/O 2 N/C ☉			—	<b>M22-KC12SMC10<sup>1)</sup></b> 173029	

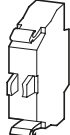



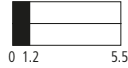

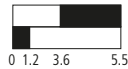
**Signal contact actuator for SMC**

For actuating the N/O contact in self-monitoring M22-...03(12)SMC10 contact elements  
Required for two-channel version with additional signaling (auxiliary) contact

						<b>M22-XSMC</b> 173030	10 units
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**Double-contact elements**

Front mounting.  
When using M22-PV... emergency stop buttons, max. 2 contact elements = 4 N/C / N/O

	Cage Clamp	2 N/O			—	<b>M22-CK20</b> 107898	20 units
		2 N/C			—	<b>M22-CK02</b> 107899	
		1 N/O 1 N/C ☉			—	<b>M22-CK11</b> 107940	

**Notes** <sup>1)</sup> The N/O is actuated when mounted with M22-XSMC.

Configuration of mounting adapter with sequence numbers as defined in EN 50013

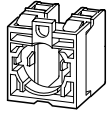

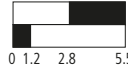
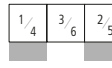
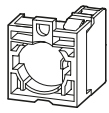

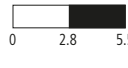
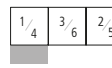
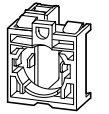

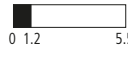
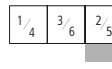


x = Sequence number on mounting adapter  
y = Function number on contact element

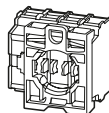
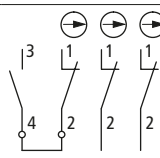
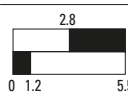
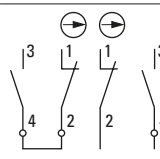
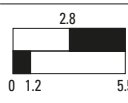
Terminal type	Contact configuration: ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Std. pack
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#### Complete modules

Combination of contact element with screw terminals and mounting adapter, front mounting

	1 N/O 1 N/C ⊕				<b>M22-AK11</b> 216505	5 units
	1 N/O				<b>M22-AK10</b> 216504	
	1 N/C ⊕				<b>M22-AK01</b> 216503	

Combination of contact element and self-monitoring contact element M22-K01SMC10 with screw terminals, M22-A mounting adapter, and M22-XSMC signal contact actuator. The N/O in the self-monitoring contact element is actuated when mounted with M22-XSMC.

	1 N/O 3 N/C ⊕			—	<b>M22-AK03SMC10</b> 173026	1 unit
	2 N/O 2 N/C ⊕			—	<b>M22-AK12SMC10</b> 173027	1 unit

**Notes** Configuration of mounting adapter with sequence numbers as defined in EN 50013



x = Sequence number on mounting adapter  
y = Function number on contact element

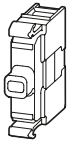
Rated operating voltage $U_e$ V	Rated operational current $I_e$ mA	Power consumption P W	Color	Part no. Article no.	Std. pack
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**LED elements with screw terminals**

→ Page 75

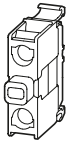


**Front mounting**



12 - 30 V AC/DC	8 - 15	0.26 at 24 V	○	<b>M22-LED-W</b> 216557	20 units
			●	<b>M22-LED-R</b> 216558	
			●	<b>M22-LED-G</b> 216559	
			●	<b>M22-LED-B</b> 218057	
85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	<b>M22-LED230-W</b> 216563	20 units
			●	<b>M22-LED230-R</b> 216564	
			●	<b>M22-LED230-G</b> 216565	
			●	<b>M22-LED230-B</b> 218059	
85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	<b>M22-LED230TA-W<sup>1)</sup></b> 182905	20 units
			●	<b>M22-LED230TA-R<sup>1)</sup></b> 182906	
			●	<b>M22-LED230TA-G<sup>1)</sup></b> 182907	
			●	<b>M22-LED230TA-B<sup>1)</sup></b> 182908	
207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	–	<b>M22-LED230H-<sup>2)</sup></b> 106521	20 units

**Base mounting**



12 - 30 V AC/DC	8 - 15	0.26 at 24 V	○	<b>M22-LEDC-W</b> 216560	20 units
			●	<b>M22-LEDC-R</b> 216561	
			●	<b>M22-LEDC-G</b> 216562	
			●	<b>M22-LEDC-B</b> 218058	
85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	<b>M22-LEDC230-W</b> 216566	20 units
			●	<b>M22-LEDC230-R</b> 216567	
			●	<b>M22-LEDC230-G</b> 216568	
			●	<b>M22-LEDC230-B</b> 218060	
207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	–	<b>M22-LEDC230H-<sup>2)</sup></b> 106522	20 units

**Notes**

- <sup>1)</sup> With interference signal protection
- <sup>2)</sup> Replace \* with color:  
W = White, R = Red, G = Green, B = Blue

For pushbuttons, indicator lights, illuminated pushbutton actuators, and illuminated selector switches, the following applies:

- M22...-R only in combination with M22-LED...-R
- M22...-G only in combination with M22-LED...-G
- M22...-W only in combination with M22-LED...-W
- M22...-Y only in combination with M22-LED...-W
- M22...-B in combination with M22-LED...-W or M22-LED...-B

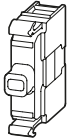
Rated operating voltage	Rated operational current	Power consumption	Color	Part no. Article no.	Std. pack
$U_e$ V	$I_e$ mA	P W			

#### LED elements with Cage Clamp

→ Page 75  
Cage Clamp is a registered trademark  
of Wago Kontakttechnik GmbH, Minden, Germany

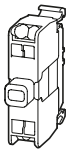


#### Front mounting



12 - 30 V AC/DC	8 - 15	0.26 at 24 V		<b>M22-CLED-W</b> 216569	20 units
				<b>M22-CLED-R</b> 216570	
				<b>M22-CLED-G</b> 216571	
				<b>M22-CLED-B</b> 218061	
85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V		<b>M22-CLED230-W</b> 216575	20 units
				<b>M22-CLED230-R</b> 216576	
				<b>M22-CLED230-G</b> 216577	
				<b>M22-CLED230-B</b> 218063	

#### Base mounting



12 - 30 V AC/DC	8 - 15	0.26 at 24 V		<b>M22-CLEDC-W</b> 216572	20 units
				<b>M22-CLEDC-R</b> 216573	
				<b>M22-CLEDC-G</b> 216574	
				<b>M22-CLEDC-B</b> 218062	
85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V		<b>M22-CLEDC230-W</b> 216578	20 units
				<b>M22-CLEDC230-R</b> 216579	
				<b>M22-CLEDC230-G</b> 216580	
				<b>M22-CLEDC230-B</b> 218064	

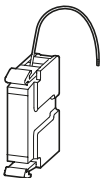
#### Notes

For pushbuttons, indicator lights, illuminated pushbutton actuators, and illuminated selector switches, the following applies:  
M22...-R only in combination with M22-LED...-R  
M22...-G only in combination with M22-LED...-G  
M22...-W only in combination with M22-LED...-W  
M22...-Y only in combination with M22-LED...-W  
M22...-B in combination with M22-LED...-W or M22-LED...-B

Part no.  
Article no. Std. pack

#### LED series elements with screw terminals

Front and base mounting → Page 75



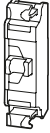
LED resistor element For connecting 12 - 30 V LED elements	42 - 60 V AC/DC	<b>M22-XLED60</b> 231078	10 units
	220 V AC/DC	<b>M22-XLED220<sup>1)</sup></b> 271541	
LED test element For decoupled function test (lamp test)	12 - 240 V AC/DC	<b>M22-XLED-T</b> 231079	
	85 - 264 V AC	<b>M22-XLED230-T</b> 231080	

#### Notes

<sup>1)</sup> Maximum ambient temperature: -25 °C to +55 °C  
The LED's brightness will be reduced.

Terminal type	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Part no. Article no.	Std. pack
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Front mounting



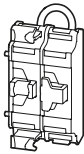
Contact elements (Flat Rear with Cage Clamp, push-in)

→ Page 75

Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden, Germany

Cage Clamp, push-in	1 N/C ⊖			M22-FK01 180791	20 units
	1 N/O			M22-FK10 180792	

Front mounting



Self-monitoring contact element (Flat Rear with Cage Clamp, push-in)

N/O is actuated when mounted on the pushbutton.

Cage Clamp, push-in	1 N/C ⊖			M22-FK01SMC10 180793	1 unit

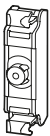
Complete assembly (Flat Rear with Cage Clamp, push-in)

Combination of contact element and self-monitoring contact element M22-FK01SMC10, M22-A mounting adapter, and M22-XSMC signal contact actuator. The N/O in the self-monitoring contact element is actuated when mounted with M22-XSMC.

Cage Clamp, push-in	3 N/C ⊖			M22-AFK03SMC10 180794	1 unit

Rated operating voltage	Rated operational current	Power consumption	Color	Part no. Article no.	Std. pack
U <sub>e</sub> V	I <sub>e</sub> mA	P W			

Front mounting



LED elements (Flat Rear with Cage Clamp, push-in)



12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-W 180795	20 units
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-B 180796	
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-G 180797	
12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		M22-FLED-R 180798	
24 V DC	10 - 15	0.36 at 24 V		M22-FLED-RG <sup>1)</sup> 180799	
24 V DC	8 - 15	0.36 at 24 V		M22-FLED-RGB <sup>1)</sup> 180800	

Notes

<sup>1)</sup>

	Terminal color			
	X1	X2	X3	X4
	+R	+G	+B	GND
M22-FLED-RG	Red	x		x
	Green		x	x
	Yellow	x	x	x
M22-FLED-RGB	Red	x		x
	Green		x	x
	Yellow	x	x	x
	White	x	x	x
	Blue		x	x
	Violet	x		x
	Turquoise		x	x

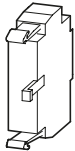

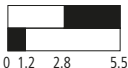
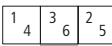


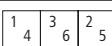
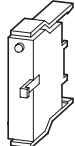


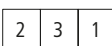


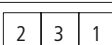
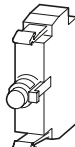


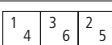




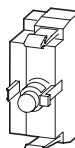


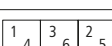




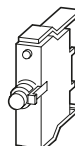

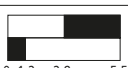
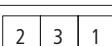




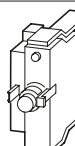

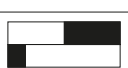
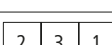




# 1.6

## RMQ-Titan pilot devices

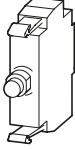
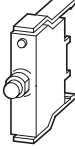

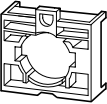
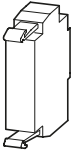
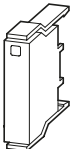
SmartWire-DT function elements

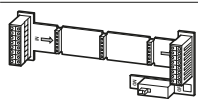
Moeller series

1

	Number of contacts	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	LED color	Part no. Article no.	Std. pack
<b>Function elements</b>							
<b>Front mounting</b> 	1		 0 1.2 2.8 5.5		No LED	<b>M22-SWD-K11</b> 115964	20 units
	2		 0 1.2 2.8 5.5		No LED	<b>M22-SWD-K22</b> 115965	10 units
<b>Base mounting</b> 	1		 0 1.2 2.8 5.5		No LED	<b>M22-SWD-KC11</b> 115995	20 units
	2		 0 1.2 2.8 5.5		No LED	<b>M22-SWD-KC22</b> 115996	10 units
<b>Front mounting</b> 	1		 0 1.2 2.8 5.5			<b>M22-SWD-K11LED-W</b> 115972	20 units
						<b>M22-SWD-K11LED-B</b> 115973	
						<b>M22-SWD-K11LED-G</b> 115974	
						<b>M22-SWD-K11LED-R</b> 115975	
	2		 0 1.2 2.8 5.5			<b>M22-SWD-K22LED-W</b> 115978	10 units
						<b>M22-SWD-K22LED-B</b> 115979	
						<b>M22-SWD-K22LED-G</b> 115980	
						<b>M22-SWD-K22LED-R</b> 115981	
<b>Base mounting</b> 	1		 0 1.2 2.8 5.5			<b>M22-SWD-K11LEDC-W</b> 116003	20 units
						<b>M22-SWD-K11LEDC-B</b> 116004	
						<b>M22-SWD-K11LEDC-G</b> 116005	
						<b>M22-SWD-K11LEDC-R</b> 116006	
	2		 0 1.2 2.8 5.5			<b>M22-SWD-K22LEDC-W</b> 116009	10 units
						<b>M22-SWD-K22LEDC-B</b> 116010	
						<b>M22-SWD-K22LEDC-G</b> 116011	
						<b>M22-SWD-K22LEDC-R</b> 116012	



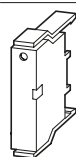
		Configuration	LED color	Part no. Article no.	Std. pack						
<b>LED elements</b>											
<b>Front mounting</b> 		<table border="1"> <tr> <td>1</td> <td>3</td> <td>2</td> </tr> <tr> <td>4</td> <td>6</td> <td>5</td> </tr> </table>	1	3	2	4	6	5	○	<b>M22-SWD-LED-W</b> 115966	20 units
			1	3	2						
			4	6	5						
			●	<b>M22-SWD-LED-B</b> 115967							
●	<b>M22-SWD-LED-G</b> 115968										
			●	<b>M22-SWD-LED-R</b> 115969							
<b>Base mounting</b> 		<table border="1"> <tr> <td>2</td> <td>3</td> <td>1</td> </tr> </table>	2	3	1	○	<b>M22-SWD-LEDC-W</b> 115997	20 units			
			2	3	1						
			●	<b>M22-SWD-LEDC-B</b> 115998							
			●	<b>M22-SWD-LEDC-G</b> 115999							
●	<b>M22-SWD-LEDC-R</b> 116000										
<b>Mounting adapters</b>											
<b>Front mounting</b> 	For 1 M22-SWD-K...function element or M22-SWD-LED...LED element In addition, 1 or 2 M22-K... contact elements possible Sequence number on mounting adapter	<table border="1"> <tr> <td>1/4</td> <td>3/6</td> <td>2/5</td> </tr> </table>	1/4	3/6	2/5	—	<b>M22-A</b> 216374	50 units			
1/4	3/6	2/5									
	For 2 M22-SWD-K22...function elements For use with M22-WR4, M22-WRJ4, M22-D4 in conjunction with M22-(SWD)-K	<table border="1"> <tr> <td>1</td> <td>4</td> <td>2</td> <td>3</td> </tr> </table>	1	4	2	3	—	<b>M22-SWD-A4</b> 116016	10 units		
1	4	2	3								
<b>IP20 universal modules</b>											
<b>Front mounting</b> 	For SmartWire-DT modules that have been configured as part of the SmartWire-DT system but have not yet been installed on the SWD ribbon cable			<b>M22-SWD-NOP</b> 147637	20 units						
<b>Base fixing</b> 	For SmartWire-DT modules that have been configured as part of the SmartWire-DT system but have not yet been installed on the M22-SWD-I... printed circuit board			<b>M22-SWD-NOPC</b> 147638	20 units						



#### Printed circuit boards

PCBs for M22-I... surface mounting enclosure for housing  
M22-SWD...K base mounting function elements  
Integrated, connectable SmartWire-DT bus termination resistor

	Part no. Article no.	Std. pack
Number of mounting locations: 1	<b>M22-SWD-I1-LP01</b> 115990	1 unit
Number of mounting locations: 2	<b>M22-SWD-I2-LP01</b> 115991	
Number of mounting locations: 3	<b>M22-SWD-I3-LP01</b> 115992	
Number of mounting locations: 4	<b>M22-SWD-I4-LP01</b> 115993	
Number of mounting locations: 6	<b>M22-SWD-I6-LP01</b> 115994	

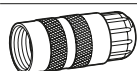


#### Link

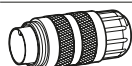
Used to link open mounting locations on  
device plugs or M22-SWD-I PCB

Link for unused mounting locations on M22-SWD-I...LP (base mounting)	<b>M22-SWD-SEL8-10</b> 116698	5 units
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#### Connectors for SmartWire-DT round cables



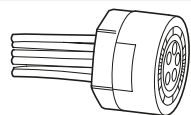
8-pin socket, straight	<b>SWD4-SF8-67</b> 116033	1 unit
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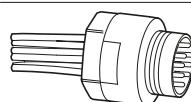
8-pin plug, flat	<b>SWD4-SM8-67</b> 116034	
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#### Housing bushing sockets

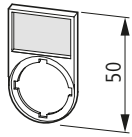
For installation in surface mounting enclosure M22-I...  
8-pin socket/plug, IP67, for connection to SWD4-S(M,F)-67...  
8 prefabricated cables for connection to M22-SWD-I... PCB



8-pin socket, M20	<b>SWD4-SF8-20</b> 116031	1 unit
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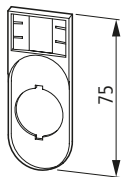
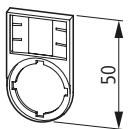


8-pin plug, M20	<b>SWD4-SM8-20</b> 116032	1 unit
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Inscription	Part no. Article no.	Std. pack	Inscription	Part no. Article no.	Std. pack
<b>Legend holders, complete</b>					
IP66 30 x 50 mm, round, black (RAL 9005)					
- 0 I	<b>M22S-ST-X88</b> 216485	10 units	FAULT	<b>M22S-ST-GB8</b> 216498	10 units
0 - I	<b>M22S-ST-X89</b> 218147		DÉFAUT	<b>M22S-ST-F67</b> 256795	
I 0 II	<b>M22S-ST-X93</b> 216486		BETRIEB	<b>M22S-ST-D7</b> 216488	
1	<b>M22S-ST-X52</b> 256797		RUN	<b>M22S-ST-GB7</b> 216497	
2	<b>M22S-ST-X53</b> 256798		EN SERVICE	<b>M22S-ST-F7</b> 256793	
STOP	<b>M22S-ST-GB0</b> 216494		HAND AUTO	<b>M22S-ST-D11</b> 216492	
START	<b>M22S-ST-GB1</b> 216495		MAN. AUTO	<b>M22S-ST-GB11</b> 216500	
AUS	<b>M22S-ST-D5</b> 218299		AUS EIN	<b>M22S-ST-D10</b> 216490	
OFF	<b>M22S-ST-GB5</b> 218300		OFF ON	<b>M22S-ST-GB10</b> 216499	
ARRÊT	<b>M22S-ST-F0</b> 256791		ARRÊT MARCHÉ	<b>M22S-ST-F10</b> 256794	
EIN	<b>M22S-ST-D6</b> 216487		HAND 0 AUTO	<b>M22S-ST-D12</b> 216493	
ON	<b>M22S-ST-GB6</b> 216496		MAN. 0 AUTO	<b>M22S-ST-GB12</b> 216501	
MARCHE	<b>M22S-ST-F1</b> 256792		SOUS TENSION	<b>M22S-ST-F68</b> 256796	
STÖRUNG	<b>M22S-ST-D8</b> 216489				

Inscription	Color	Part no. Article no.	Std. pack	Notes
<b>Legend holders without label</b>				
IP66 Round, black (RAL 9005)				
30 x 50 mm	●	<b>M22S-ST-X</b> 216392	25 units	Cannot be used for M22(S)-PV...
30 x 50 mm	●	<b>M22S-ST-X-GVP</b> 216393	500 units	
For double actuator pushbuttons 30 x 75 mm	●	<b>M22S-STDD-X</b> 216394	10 units	--



<b>Insert labels for label mounts</b>				
18 x 27 mm				
	Aluminum color, no inscription	--	<b>M22-XST</b> 216480	100 units --
	Aluminum color, no inscription	--	<b>M22-XST-GVP</b> 216481	500 units --
	* = With customized Label Editor inscription → Page 74	--	<b>M22-XST-*</b> 216482	1 unit Letter height of 3 mm: Max. 3 lines, Max. 12 characters per line Letter height of 5 mm: Max. 2 lines, Max. 8 characters per line

Inscription or explanation	For use with	Color, symbol	Style: flush	Style: extended	Std. pack
			Part no. Article no.	Part no. Article no.	
<b>Button plates for pushbuttons</b>					
≤ 5 characters: letter height of 5 mm, > 5 characters: letter height of 3 mm					
–	M22(S)-D-X M22(S)-DR-X	●	<b>M22-XD-S</b> 216421	<b>M22-XDH-S</b> 216428	10 units
–	M22-DG-X M30C-FD-X M30C-FDR-X	○	<b>M22-XD-W</b> 216422	<b>M22-XDH-W</b> 216429	
–		●	<b>M22-XD-R</b> 216423	<b>M22-XDH-R</b> 216430	
–		●	<b>M22-XD-G</b> 216424	<b>M22-XDH-G</b> 216431	
–		●	<b>M22-XD-Y</b> 216425	<b>M22-XDH-Y</b> 216432	
–		●	<b>M22-XD-B</b> 216426	<b>M22-XDH-B</b> 216433	
–		●	<b>M22-XD-GR</b> 132670		
With customized Label Editor inscription → Notes		–	<b>M22-XD-*.*</b> 216427	<b>M22-XDH-*.*</b> 216434	
Zu		●	<b>M22-XD-S-D2</b> 218184	<b>M22-XDH-S-D2</b> 218229	
Auf		●	<b>M22-XD-S-D3</b> 218185	<b>M22-XDH-S-D3</b> 218230	
Ab		●	<b>M22-XD-S-D4</b> 218186	<b>M22-XDH-S-D4</b> 218231	
Aus		●	<b>M22-XD-R-D5</b> 218187	<b>M22-XDH-R-D5</b> 218232	
Ein		●	<b>M22-XD-S-D6</b> 218188	<b>M22-XDH-S-D6</b> 218233	
Entsperren		●	<b>M22-XD-B-D14</b> 218189	<b>M22-XDH-B-D14</b> 218234	
Vorwärts		●	<b>M22-XD-S-D15</b> 218190	<b>M22-XDH-S-D15</b> 218235	
Rückwärts		●	<b>M22-XD-S-D16</b> 218191	<b>M22-XDH-S-D16</b> 218236	
Heben		●	<b>M22-XD-S-D17</b> 218192	<b>M22-XDH-S-D17</b> 218237	
Senken		●	<b>M22-XD-S-D18</b> 218193	<b>M22-XDH-S-D18</b> 218238	
STOP		●	<b>M22-XD-R-GB0</b> 218194	<b>M22-XDH-R-GB0</b> 218239	
STOP		●	<b>M22-XD-S-GB0</b> 218195	<b>M22-XDH-S-GB0</b> 218240	
START		●	<b>M22-XD-G-GB1</b> 218196	<b>M22-XDH-G-GB1</b> 218241	
START		○	<b>M22-XD-W-GB1</b> 218197	<b>M22-XDH-W-GB1</b> 218242	
CLOSE		●	<b>M22-XD-S-GB2</b> 218198	<b>M22-XDH-S-GB2</b> 218243	
UP		●	<b>M22-XD-S-GB3</b> 218199	<b>M22-XDH-S-GB3</b> 218244	
DOWN		●	<b>M22-XD-S-GB4</b> 218200	<b>M22-XDH-S-GB4</b> 218245	
TEST		●	<b>M22-XD-S-GB9</b> 218201	<b>M22-XDH-S-GB9</b> 218246	
OFF		●	<b>M22-XD-R-GB5</b> 218202	<b>M22-XDH-R-GB5</b> 218247	
ON		●	<b>M22-XD-S-GB6</b> 218203	<b>M22-XDH-S-GB6</b> 218248	

**Notes**

When ordering, replace the asterisks in part no. M22-XD(H)-\*-\* as follows:  
 1. Wildcard  $\triangle$  Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black), -U (grey)  
 2. Wildcard  $\triangle$  Filename assigned by Label Editor → Page 74

Text size of 3 mm:  
 Max. 8 characters in 1st line,  
 10 characters in 2nd line, 8 characters  
 in 3rd line



Text size of 5 mm:  
 Max. 5 characters per line



Inscription or explanation	For use with	Color, symbol	Style: flush	Style: extended	Std. pack
			Part no. Article no.	Part no. Article no.	
<b>Button plates for pushbuttons</b>					
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm					
RESET	M22(S)-D-X M22(S)-DR-X		<b>M22-XD-B-GB14</b> 218204	<b>M22-XDH-B-GB14</b> 218249	10 units
FORWARD	M22-DG-X M30C-FD-X M30C-FDR-X		<b>M22-XD-S-GB15</b> 218205	<b>M22-XDH-S-GB15</b> 218250	
REVERSE			<b>M22-XD-S-GB16</b> 218206	<b>M22-XDH-S-GB16</b> 218251	
RAISE			<b>M22-XD-S-GB17</b> 218208	<b>M22-XDH-S-GB17</b> 218252	
LOWER			<b>M22-XD-S-GB18</b> 218209	<b>M22-XDH-S-GB18</b> 218253	
Stop			<b>M22-XD-R-X0</b> 218153	<b>M22-XDH-R-X0</b> 218155	
Stop			<b>M22-XD-S-X0</b> 218154	<b>M22-XDH-S-X0</b> 218156	
Start			<b>M22-XD-G-X1</b> 218165	<b>M22-XDH-G-X1</b> 218210	
Start			<b>M22-XD-S-X1</b> 218166	<b>M22-XDH-S-X1</b> 218211	
Start			<b>M22-XD-W-X1</b> 218167	<b>M22-XDH-W-X1</b> 218212	
Start			<b>M22-XD-G-X2</b> 218168	<b>M22-XDH-G-X2</b> 218213	
Start			<b>M22-XD-S-X2</b> 218169	<b>M22-XDH-S-X2</b> 218214	
Increase			<b>M22-XD-S-X4</b> 218170	<b>M22-XDH-S-X4</b> 218215	
Decrease			<b>M22-XD-S-X5</b> 218171	<b>M22-XDH-S-X5</b> 218216	
Reset			<b>M22-XD-B-X6</b> 218172	<b>M22-XDH-B-X6</b> 218217	
Direction of movement			<b>M22-XD-S-X7</b> 218173	<b>M22-XDH-S-X7</b> 218218	
Direction of movement			<b>M22-XD-S-X8</b> 218174	<b>M22-XDH-S-X8</b> 218219	
Manual			<b>M22-XD-S-X9</b> 218175	<b>M22-XDH-S-X9</b> 218220	
Automatic			<b>M22-XD-S-X10</b> 218176	<b>M22-XDH-S-X10</b> 218221	
Inch			<b>M22-XD-S-X11</b> 218177	<b>M22-XDH-S-X11</b> 218222	
Unlock			<b>M22-XD-S-X12</b> 218178	<b>M22-XDH-S-X12</b> 218223	
Unclamp			<b>M22-XD-S-X13</b> 218179	<b>M22-XDH-S-X13</b> 218224	
Clamp			<b>M22-XD-S-X14</b> 218180	<b>M22-XDH-S-X14</b> 218225	
Release			<b>M22-XD-S-X15</b> 218181	<b>M22-XDH-S-X15</b> 218226	
Liquid			<b>M22-XD-S-X16</b> 218182	<b>M22-XDH-S-X16</b> 218227	
Klaxon			<b>M22-XD-S-X17</b> 218183	<b>M22-XDH-S-X17</b> 218228	

Inscription or explanation	For use with	Color	Part no. Article no.	Std. pack
<b>Button plates for mushroom pushbuttons</b>				
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
–	M22(S)-D(R)P-...	●	<b>M22-XDP-S</b> 216435	10 units
–		○	<b>M22-XDP-W</b> 216436	
–		●	<b>M22-XDP-R</b> 216437	
–		●	<b>M22-XDP-G</b> 216438	
–		●	<b>M22-XDP-Y</b> 216439	
With customized Label Editor inscription → Notes		–	<b>M22-XDP-*.~.*</b> 216440	
Zu		●	<b>M22-XDP-S-D2</b> 218272	
Auf		●	<b>M22-XDP-S-D3</b> 218273	
Ab		●	<b>M22-XDP-S-D4</b> 218274	
Aus		●	<b>M22-XDP-R-D5</b> 218275	
Ein		●	<b>M22-XDP-S-D6</b> 218276	
Vorwärts		●	<b>M22-XDP-S-D15</b> 218277	
Rückwärts		●	<b>M22-XDP-S-D16</b> 218278	
Heben		●	<b>M22-XDP-S-D17</b> 218279	
Senken		●	<b>M22-XDP-S-D18</b> 218280	
STOP		●	<b>M22-XDP-R-GB0</b> 218281	
STOP		●	<b>M22-XDP-S-GB0</b> 218282	
START		●	<b>M22-XDP-G-GB1</b> 218283	
START		○	<b>M22-XDP-W-GB1</b> 218284	
CLOSE		●	<b>M22-XDP-S-GB2</b> 218285	
UP		●	<b>M22-XDP-S-GB3</b> 218286	
DOWN		●	<b>M22-XDP-S-GB4</b> 218287	
OFF		●	<b>M22-XDP-R-GB5</b> 218289	
ON		●	<b>M22-XDP-S-GB6</b> 218290	
TEST		●	<b>M22-XDP-S-GB9</b> 218288	
FORWARD		●	<b>M22-XDP-S-GB15</b> 218291	
REVERSE		●	<b>M22-XDP-S-GB16</b> 218292	

**Notes**























The following information must be added to the part no. when ordering:  
 1. Wildcard \* Δ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black), -U (grey)  
 2. Wildcard \* Δ Filename assigned by Label Editor → Page 74



























Text size of 3 mm:  
 Max. 8 characters in first line,  
 10 characters in second line,  
 8 characters in third line



Text size of 5 mm:  
 Max. 5 characters per line



Inscription or explanation	For use with	Color, symbol	Part no. Article no.	Std. pack
<b>Button plates for mushroom pushbuttons</b>				
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
RAISE	M22(S)-D(R)P-...		<b>M22-XDP-S-GB17</b> 218293	10 units
LOWER			<b>M22-XDP-S-GB18</b> 218294	
Stop			<b>M22-XDP-R-X0</b> 218157	
Stop			<b>M22-XDP-S-X0</b> 218158	
Start			<b>M22-XDP-G-X1</b> 218254	
Start			<b>M22-XDP-S-X1</b> 218255	
Start			<b>M22-XDP-W-X1</b> 218256	
Start			<b>M22-XDP-G-X2</b> 218257	
Start			<b>M22-XDP-S-X2</b> 218258	
Increase			<b>M22-XDP-S-X4</b> 218259	
Decrease			<b>M22-XDP-S-X5</b> 218260	
Direction of movement			<b>M22-XDP-S-X7</b> 218261	
Direction of movement			<b>M22-XDP-S-X8</b> 218262	
Manual			<b>M22-XDP-S-X9</b> 218263	
Automatic			<b>M22-XDP-S-X10</b> 218264	
Inch			<b>M22-XDP-S-X11</b> 218265	
Unlock			<b>M22-XDP-S-X12</b> 218266	
Unclamp			<b>M22-XDP-S-X13</b> 218267	
Clamp			<b>M22-XDP-S-X14</b> 218268	
Release			<b>M22-XDP-S-X15</b> 218269	
Liquid			<b>M22-XDP-S-X16</b> 218270	
Klaxon			<b>M22-XDP-S-X17</b> 218271	

Inscription or explanation	For use with	Color	Style: flush		Style: extended	
			Part no. Article no.	Std. pack	Part no. Article no.	Std. pack
<b>Lenses for indicator lights</b>						
≤ 5 characters: letter height 5 of mm						
> 5 characters: letter height of 3 mm						
–	M22-L-X M22-LC-X		<b>M22-XL-W</b> 216453	10 units	<b>M22-XLH-W</b> 216459	10 units
–			<b>M22-XL-R</b> 216454		<b>M22-XLH-R</b> 216460	
–			<b>M22-XL-G</b> 216455		<b>M22-XLH-G</b> 216461	
–			<b>M22-XL-Y</b> 216456		<b>M22-XLH-Y</b> 216462	
–			<b>M22-XL-B</b> 216457		<b>M22-XLH-B</b> 216463	
–			<b>M22-XL-A</b> 118740		<b>M22-XLH-A</b> 118741	
With customized Label Editor inscription → Notes		–	<b>M22-XL-*-*</b> 216458			
Zu			<b>M22-XL-W-D2</b> 218403			
Auf			<b>M22-XL-W-D3</b> 218404			
Ab			<b>M22-XL-W-D4</b> 218405			
Aus			<b>M22-XL-R-D5</b> 218406			
Ein			<b>M22-XL-W-D6</b> 218407			
Vorwärts			<b>M22-XL-W-D15</b> 218408			
Rückwärts			<b>M22-XL-W-D16</b> 218409			
Heben			<b>M22-XL-W-D17</b> 218410			
Senken			<b>M22-XL-W-D18</b> 218411			
STOP			<b>M22-XL-R-GB0</b> 218412			
STOP			<b>M22-XL-W-GB0</b> 218413			
START			<b>M22-XL-G-GB1</b> 218414			
START			<b>M22-XL-W-GB1</b> 218415			
CLOSE			<b>M22-XL-W-GB2</b> 218416			
UP			<b>M22-XL-W-GB3</b> 218417			
DOWN			<b>M22-XL-W-GB4</b> 218418			
TEST			<b>M22-XL-W-GB9</b> 218419			
OFF			<b>M22-XL-R-GB5</b> 218420			
ON			<b>M22-XL-W-GB6</b> 218421			
FORWARD			<b>M22-XL-W-GB15</b> 218422			

**Notes**

The following information must be added to the part no. when ordering:  
 1. Wildcard Δ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)  
 2. Wildcard Δ Filename assigned by Label Editor → Page 74























Text size of 3 mm:  
 Max. 8 characters in first line,  
 10 characters in second line,  
 8 characters in third line





























Text size of 5 mm:  
 Max. 5 characters per line





Inscription or explanation	For use with	Color, symbol	Part no. Article no.	Std. pack
<b>Lenses for indicator lights</b>				
≤ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
REVERSE	M22-L-X M22-LC-X		<b>M22-XL-W-GB16</b> 218423	10 units
RAISE			<b>M22-XL-W-GB17</b> 218424	
LOWER			<b>M22-XL-W-GB18</b> 218425	
Stop			<b>M22-XL-R-X0</b> 218163	
Stop			<b>M22-XL-W-X0</b> 218164	
Start			<b>M22-XL-G-X1</b> 218384	
Start			<b>M22-XL-W-X1</b> 218385	
Start			<b>M22-XL-G-X2</b> 218386	
Start			<b>M22-XL-W-X2</b> 218387	
Increase			<b>M22-XL-W-X4</b> 218388	
Decrease			<b>M22-XL-W-X5</b> 218389	
Direction of movement			<b>M22-XL-W-X7</b> 218390	
Direction of movement			<b>M22-XL-W-X8</b> 218391	
Manual			<b>M22-XL-W-X9</b> 218392	
Automatic			<b>M22-XL-W-X10</b> 218393	
Inch			<b>M22-XL-W-X11</b> 218394	
Unlock			<b>M22-XL-W-X12</b> 218395	
Unclamp			<b>M22-XL-W-X13</b> 218396	
Clamp			<b>M22-XL-W-X14</b> 218399	
Release			<b>M22-XL-W-X15</b> 218400	
Liquid			<b>M22-XL-W-X16</b> 218401	
Klaxon			<b>M22-XL-W-X17</b> 218402	

Inscription or explanation	For use with	Color	Style: flush		Style: extended	
			Part no. Article no.	Std. pack	Part no. Article no.	Std. pack
<b>Button lenses for illuminated pushbutton actuators</b>						
≤ 5 characters: letter height of 5 mm > 5 characters: letter height of 3 mm						
–	M22(S)-D-X M22(S)-DR-X M22-DG-X M30C-FDL-X M30C-FDRL-X		<b>M22-XDL-W</b> 216441	10 units	<b>M22-XDLH-W</b> 216447	10 units
–			<b>M22-XDL-R</b> 216442		<b>M22-XDLH-R</b> 216448	
–			<b>M22-XDL-G</b> 216443		<b>M22-XDLH-G</b> 216449	
–			<b>M22-XDL-Y</b> 216444		<b>M22-XDLH-Y</b> 216450	
–			<b>M22-XDL-B</b> 216445		<b>M22-XDLH-B</b> 216451	
–			<b>M22-XDL-A</b> 167437		<b>M22-XDLH-A</b> 167438	
With customized Label Editor inscription → Notes		–	<b>M22-XDL-*-*</b> 216446		<b>M22-XDLH-*-*</b> 216452	
Zu			<b>M22-XDL-W-D2</b> 218316		<b>M22-XDLH-W-D2</b> 218359	
Auf			<b>M22-XDL-W-D3</b> 218317		<b>M22-XDLH-W-D3</b> 218360	
Ab			<b>M22-XDL-W-D4</b> 218318		<b>M22-XDLH-W-D4</b> 218361	
Aus			<b>M22-XDL-R-D5</b> 218319		<b>M22-XDLH-R-D5</b> 218362	
Ein			<b>M22-XDL-W-D6</b> 218320		<b>M22-XDLH-W-D6</b> 218363	
Entsperren			<b>M22-XDL-B-D14</b> 218321		<b>M22-XDLH-B-D14</b> 218364	
Vorwärts			<b>M22-XDL-W-D15</b> 218322		<b>M22-XDLH-W-D15</b> 218365	
Rückwärts			<b>M22-XDL-W-D16</b> 218323		<b>M22-XDLH-W-D16</b> 218366	
Heben			<b>M22-XDL-W-D17</b> 218324		<b>M22-XDLH-W-D17</b> 218367	
Senken			<b>M22-XDL-W-D18</b> 218325		<b>M22-XDLH-W-D18</b> 218368	
STOP			<b>M22-XDL-R-GB0</b> 218326		<b>M22-XDLH-R-GB0</b> 218369	
STOP			<b>M22-XDL-W-GB0</b> 218327		<b>M22-XDLH-W-GB0</b> 218370	
START			<b>M22-XDL-G-GB1</b> 218328		<b>M22-XDLH-G-GB1</b> 218371	
START			<b>M22-XDL-W-GB1</b> 218329		<b>M22-XDLH-W-GB1</b> 218372	
CLOSE			<b>M22-XDL-W-GB2</b> 218330		<b>M22-XDLH-W-GB2</b> 218373	
UP			<b>M22-XDL-W-GB3</b> 218331		<b>M22-XDLH-W-GB3</b> 218374	
DOWN			<b>M22-XDL-W-GB4</b> 218332		<b>M22-XDLH-W-GB4</b> 218375	
TEST			<b>M22-XDL-W-GB9</b> 218333		<b>M22-XDLH-W-GB9</b> 218376	
OFF			<b>M22-XDL-R-GB5</b> 218334		<b>M22-XDLH-R-GB5</b> 218377	
ON			<b>M22-XDL-W-GB6</b> 218335		<b>M22-XDLH-W-GB6</b> 218378	

**Notes**

The following information must be added to the part no. when ordering:  
 1. Wildcard \* Δ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow)  
 2. Wildcard \* Δ Filename assigned by Label Editor → Page 74

Text size of 3 mm:

Max. 8 characters in first line,  
 10 characters in second line,  
 8 characters in third line




























Text size of 5 mm:

Max. 5 characters per line





Button lenses for illuminated pushbutton actuators

Inscription or explanation	For use with	Color, symbol	Style: flush		Style: extended	
			Part no. Article no.	Std. pack	Part no. Article no.	Std. pack
<b>Button lenses for illuminated pushbutton actuators</b>						
≤ 5 characters: letter height 5 of mm						
> 5 characters: letter height of 3 mm						
RESET	M22(S)-D-X M22(S)-DR-X		<b>M22-XDL-B-GB14</b> 218336	10 units	<b>M22-XDLH-B-GB14</b> 218379	10 units
FORWARD	M22-DG-X M30C-FDL-X		<b>M22-XDL-W-GB15</b> 218337		<b>M22-XDLH-W-GB15</b> 218380	
REVERSE	M30C-FDRL-X		<b>M22-XDL-W-GB16</b> 218338		<b>M22-XDLH-W-GB16</b> 218381	
RAISE			<b>M22-XDL-W-GB17</b> 218339		<b>M22-XDLH-W-GB17</b> 218382	
LOWER			<b>M22-XDL-W-GB18</b> 218340		<b>M22-XDLH-W-GB18</b> 218383	
Stop			<b>M22-XDL-R-X0</b> 218159		<b>M22-XDLH-R-X0</b> 218161	
Stop			<b>M22-XDL-W-X0</b> 218160		<b>M22-XDLH-W-X0</b> 218162	
Start			<b>M22-XDL-G-X1</b> 218295		<b>M22-XDLH-G-X1</b> 218341	
Start			<b>M22-XDL-W-X1</b> 218296		<b>M22-XDLH-W-X1</b> 218342	
Start			<b>M22-XDL-G-X2</b> 218297		<b>M22-XDLH-G-X2</b> 218343	
Start			<b>M22-XDL-W-X2</b> 218301		<b>M22-XDLH-W-X2</b> 218344	
Increase			<b>M22-XDL-W-X4</b> 218302		<b>M22-XDLH-W-X4</b> 218345	
Decrease			<b>M22-XDL-W-X5</b> 218303		<b>M22-XDLH-W-X5</b> 218346	
Reset			<b>M22-XDL-B-X6</b> 218304		<b>M22-XDLH-B-X6</b> 218347	
Direction of movement			<b>M22-XDL-W-X7</b> 218305		<b>M22-XDLH-W-X7</b> 218348	
Direction of movement			<b>M22-XDL-W-X8</b> 218306		<b>M22-XDLH-W-X8</b> 218349	
Manual			<b>M22-XDL-W-X9</b> 218307		<b>M22-XDLH-W-X9</b> 218350	
Automatic			<b>M22-XDL-W-X10</b> 218308		<b>M22-XDLH-W-X10</b> 218351	
Inch			<b>M22-XDL-W-X11</b> 218309		<b>M22-XDLH-W-X11</b> 218352	
Unlock			<b>M22-XDL-W-X12</b> 218310		<b>M22-XDLH-W-X12</b> 218353	
Unclamp			<b>M22-XDL-W-X13</b> 218311		<b>M22-XDLH-W-X13</b> 218354	
Clamp			<b>M22-XDL-W-X14</b> 218312		<b>M22-XDLH-W-X14</b> 218355	
Release			<b>M22-XDL-W-X15</b> 218313		<b>M22-XDLH-W-X15</b> 218356	
Liquid			<b>M22-XDL-W-X16</b> 218314		<b>M22-XDLH-W-X16</b> 218357	
Klaxon			<b>M22-XDL-W-X17</b> 218315		<b>M22-XDLH-W-X17</b> 218358	

	Degree of protection	Mounting locations Qty.	Color	RAL number	Cable entry knockouts Number of M20 knockouts	Part no. Article no.	Std. pack
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

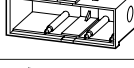

#### Flush mounting plates

No add-on legend plates possible when using a vertical layout  
Degree of protection only in conjunction with a suitable enclosure and correct mounting.

Aluminum with yellow paint finish for emergency stop button	IP65	1		RAL 1004	–	<b>M22-EY1</b> 216542	5 units
Aluminum Bright dip anodized, including M22-XE...		1		RAL 7035	–	<b>M22-E1</b> 216541	
		2			–	<b>M22-E2</b> 216543	
		3			–	<b>M22-E3</b> 216544	
		4			–	<b>M22-E4</b> 216545	1 unit
		5			–	<b>M22-E5</b> 216546	
	IP40	6			–	<b>M22-E6</b> 216547	

#### Shrouds






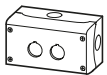

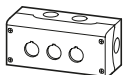

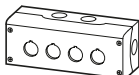

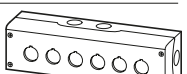

Light gray plastic  
Degree of protection only in combination with M22-E... flush mounting plates

	IP55	1		RAL 7035	3	<b>M22-H1</b> 216548	1 unit
		2			4	<b>M22-H2</b> 216549	
		3			4	<b>M22-H3</b> 216550	
	IP40	4			4	<b>M22-H4</b> 216551	
		5			5	<b>M22-H5</b> 216552	
		6			6	<b>M22-H6</b> 216553	

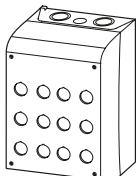


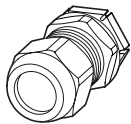
#### Set of plaster keys

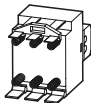
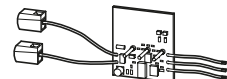
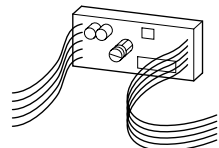
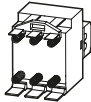
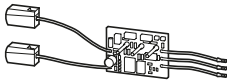
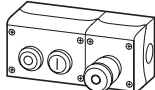
Comprising two plaster keys that can be used as mounting aids  
For shroud plasterboard mounting









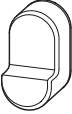

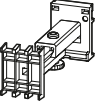
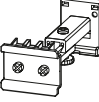
	–	–	–	–	–	<b>M22-UPE</b> 216554	1 unit
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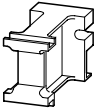





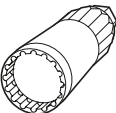
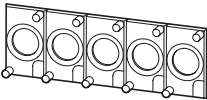



Moun- ting loca- tions	Enclosure material	Cable entries	Degree of protection	Color	RAL number	Color	Part no. Article no.	Std. pack	Enclosure base				
									Surface mounting enclosures				
	1	At bottom: 2 x M16 At top: 1 x M20 On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K		RAL 7035	Anthracite	<b>M22-I1</b> 216535	1 unit	Surface mounting enclosures				
	With stainless steel screws												
	Plastic										RAL 1004	Anthracite	<b>M22-IY1</b> 216536
	Stainless steel										RAL 1004	Anthracite	<b>M22-IY1-XPV60<sup>1)</sup></b> 167798
	Metal									–	–	–	<b>M22-I1M/SS<sup>2)</sup></b> 118455
Metal			RAL 1004	–	<b>M22-I1MGE-SAL</b> 118456								
Metal		–	–	–	<b>M22-I1M-SAL</b> 118457								
	2	At bottom: 2 x M20  At top: 1 x M20  On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K		RAL 7035	Anthracite	<b>M22-I2</b> 216537		Surface mounting enclosures				
	Plastic									–	–	–	<b>M22-I2M/SS<sup>2)</sup></b> 118458
	Stainless steel									–	–	–	<b>M22-I2M-SAL</b> 118459
Metal		–	–	–	<b>M22-I2M-SAL</b> 118459								
	3	At bottom: 2 x M20  At top: 2 x M20  On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K		RAL 7035	Anthracite	<b>M22-I3</b> 216538		Surface mounting enclosures				
	Plastic									–	–	–	<b>M22-I3M/SS<sup>2)</sup></b> 118460
	Stainless steel									–	–	–	<b>M22-I3M-SAL</b> 118461
Metal		–	–	–	<b>M22-I3M-SAL</b> 118461								
	4	At bottom: 2 x M20 At top: 2 x M20 On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K		RAL 7035	Anthracite	<b>M22-I4</b> 216539		Surface mounting enclosures				
	Plastic									–	–	–	
	6	At bottom: 2 x M20 At top: 2 x M20 On the sides: 2 x M20/M25 (one on each side)	IP66		RAL 7035	Anthracite	<b>M22-I6</b> 216540		Surface mounting enclosures				
	Plastic									–	–	–	

**Notes** <sup>1)</sup> With additional cable entry in the front for M22-XPV60... illuminated ring  
<sup>2)</sup> With mounting tabs on the sides

Moun- ting loca- tions	Cable entry knockouts	Color	RAL number	Degree of protection	Part no. Article no.	Std. pack	Surface mounting enclosure
							Surface mounting enclosure
	2 x 32/25		RAL 7035	IP55	<b>M22-I12</b> 222688	1 unit	Surface mounting enclosure
							12
	–	–	–	IP67	<b>M22-XI</b> 229162	25 units	<b>M20 connecting screw</b>
							–
	–	–	–	IP68, IP69K	<b>V-M20</b> 206910	20 units	<b>M20 metric cable glands as defined in EN 50262</b>
							–

	Description	Part no. Article no.	Std. pack
<b>AS-Interface connection for RMQ-Titan</b>			
	For front mounting (RMQ-Titan) AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Module enclosure for snap-fitting on the following contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C), M22-K10 (N/O) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	<b>M22-ASI</b> 231269	1 unit
	For base mounting (RMQ-Titan) Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Inputs for 2 contacts Output for 1 LED element: M22-LED-...	<b>M22-ASI-C</b> 231271	1 unit
	For surface mounting enclosures (RMQ-Titan) External connections: 4 inputs/4 outputs (for RMQ contact and lamp socket elements.) RMQ-Titan surface mounting enclosures: M22-I3, M22-I4, M22-I6	<b>RMQ-M1C-ASI</b> 032314	1 unit
<b>Emergency stop interfaces for AS-Interface for safety monitor</b>			
	For front mounting AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 1 dual-channel input, 1 output Module enclosure for snap-fitting on the following contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	<b>M22-ASI-S</b> 231270	1 unit
	For base mounting AS-Interface slave Adapter element for RMQ-Titan or FAK AS-Interface information: 1 dual-channel input, 1 output for the following RMQ-Titan contact and LED elements: Inputs for 2 contact elements: M22-K01 or M22-K01 (N/C) Output for 1 LED element: M22-LED-...	<b>M22-ASI-CS</b> 231272	1 unit
	<b>AS-Interface complete device</b> M22-I2 and M22-I2Y surface mounting enclosures M22-PVL emergency stop button and ON/OFF pushbutton; ON illuminated 1 M22-AS-Interface-CS and 1 M22-AS-Interface-C 1 M12A connector Address for M22-PVL → 0; ON/OFF 1 A	<b>M22-I1/2-M1-ASI</b> 107405	1 unit

	For use with	Color	Part no. Article no.	Std. pack
	<b>Gold bezel (24 Carat)</b> Bezel not available individually: Can be ordered only through Eaton sales office as M22-COMBINATION-* (customized complete devices)			
	-	-	<b>M22-FR-AU</b> 274150	1 unit
	<b>Blanking plugs</b> Round design, IP67, IP69K For sealing spare mounting locations			
	M22		<b>M22-B</b> 216388	50 units
	M22		<b>M22-B-GVP</b> 216389	250 units
	M22		<b>M22S-B</b> 216390	50 units
	M22		<b>M22S-B-GVP</b> 216391	250 units
	M30		<b>M30C-FB</b> 187028	1 unit
	<b>Pushbutton diaphragms for IP67, IP69K, silicone</b> Transparent diaphragms for harsh environmental conditions and use in the food industry. Do not use with legend holder M22S-ST, as the degree of protection will not be guaranteed			
	M22(S)-D(R)-... M22(S)-DL-... M22(S)-DRL-... M22(S)-L(C)-...	-	<b>M22-T-D</b> 216395	10 units
	M22(S)-DDL...	-	<b>M22-T-DD</b> 216396	10 units
	<b>Protective diaphragm, silicone</b> Prevents the ingress of dirt and dust into the key opening.			
	M22-WS...	-	<b>M22-XWS</b> 231275	5 units
	<b>Telescopic clips</b> For adjusting the depth of rear mounting devices in CI enclosures and cabinets with mounting depths of 115 to 155 mm. Continuously adjustable; screw and snap fitting (IEC/EN 60715 DIN-rail); maximum of 10 M22-TC units permissible per enclosure, of which 5 must have pushbuttons with maintained action, Do not use in conjunction with emergency stop buttons.			
	3 contact/LED elements, base mounting configuration, including centering adapter	-	<b>M22-TC</b> 216398	10 units
	With IEC/EN 60715 DIN-rail, width of 44 mm For mounting EASY, FAZ, PKZ, DIL, etc. weighing ≤ 0.3 kg easy200, easy500, easy700, easy800, MFD-CP8, EC4P Continuously adjustable over scales of 75 - 115 mm	-	<b>M22-TA</b> 226161	1 unit

	For use with	Part no. Article no.	Std. pack
	<b>Extension</b> Telescopic clip for a mounting depth of up to 205 mm	<b>M22-TCV</b> 225527	5 units
	<b>IVS top-hat rail adapter</b> IEC/EN 60715 DIN-rail for front mounting	<b>M22-IVS</b> 216400	1 unit
	<b>Plunger bridge</b> For actuating the middle contact element of the M22-W...3 non-illuminated 3-position selector switch → Page 74	<b>M22-XW</b> 216405	10 units
	<b>Guard ring</b> To protect against accidental actuation, IP66 For pushbuttons and selector switches (add-on legend plates cannot be used)	<b>M22-XGWK</b> 231274	5 units
	<b>Threaded rings</b> M22 x 1.5 mm		
	6.0 mm thick	<b>M22-GR</b> 216401	50 units
	4.8 mm thick	<b>M22-GR7</b> 288852	50 units
	6.0 mm thick	<b>M22-GR-GVP</b> 216404	500 units
	<b>30/22.3 mm set of adapter rings</b> Black, consisting of adapter ring and fixing nut, IP67, IP69K For installing 22.3 mm diameter devices in 30.5 mm diameter holes The degree of protection is determined by the front element	<b>M22S-R30</b> 216408	10 units
	<b>Mounting ring tool</b> For threaded ring; can be used with cordless screwdriver.	<b>M22-MS</b> 216402	5 units
	<b>Fixing plate</b> M22-H... on M22-E... flush mounting plate for 5 mounting locations	<b>M22-XE5</b> 218945	1 unit
	<b>Dust cover</b> For M22-K... contacts (front mounting)	<b>M22-XKDP</b> 100647	50 units
	<b>Dust cover and mechanical mount</b> For M22... 5 x M20 knockouts		
	Max. 3 contacts	<b>M22-ADC</b> 106523	1 unit
	Max. 4 contacts	<b>M22-ADC4</b> 106524	
	Mechanical mount	<b>M22-XADC</b> 107918	
	<b>Gasket</b> For add-on legend plates used on uneven surfaces	<b>M22-XZD</b> 134826	50 units



Version	Lifespan at $t_g = +25\text{ }^\circ\text{C}$ $t_{\text{average}} \text{ (AC)}$ h	Color	Part no. Article no.	Std. pack
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**BA 9s incandescent lamps for compact indicator lights**

High-quality versions from select manufacturers

110 - 130 V/2.4 W	2000	–	<b>A22-GL130</b> 261361	100 units
24 V/2.0 W	5000	–	<b>A22-GL24</b> 261360	100 units



**BA 9s single-chip LEDs for compact indicator lights**

For AC and DC (positive pole connected to X1), protected against polarity reversal, integral suppressor circuit up to 1500 V

12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-W</b> 261362	10 units
12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-R</b> 261364	
12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-G</b> 261363	
12 - 30 V AC/DC/15 mA	100000		<b>A22-LED-Y</b> 261365	

Cable length	Terminal diagram / Contact assignment	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
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m

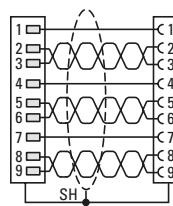
**M22 USB and RJ45 panel mount connectors**

Front mounting  
IP65 (with closed cover), IP20 (with plug connected)

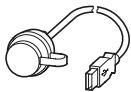


USB 3.0 socket, Type A

–



<b>M22-USB</b> 147539	<b>M22S-USB</b> 147541	1 unit
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Prefabricated cable with permanently connected USB 3.0 Type A plug

0.6

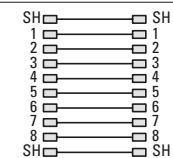
1.5

<b>M22-USB-SA</b> 107412	<b>M22S-USB-SA</b> 147535	1 unit
<b>M22-USB-SA-150</b> 147543	<b>M22S-USB-SA-150</b> 147545	



RJ45 socket, 8/8, Cat 5e

–



<b>M22-RJ45-SA</b> 107413	<b>M22S-RJ45-SA</b> 147537	1 unit
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**M30C USB and RJ45 panel mount connectors (Flat Front)**

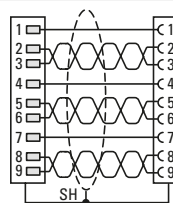
Front mounting  
IP20 (with plug connected)

Metal bezel

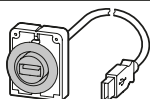


With permanently connected USB 3.0 Type A plug

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<b>M30C-FUSB</b> 187082		1 unit
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Prefabricated cable with permanently connected USB 3.0 e A plug

0.3

0.6

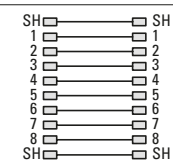
1.5

<b>M30C-FUSB-30</b> 187083		1 unit
<b>M30C-FUSB-60</b> 187084		
<b>M30C-FUSB-150</b> 187085		






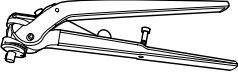



RJ45 socket, 8/8, Cat 5e

–

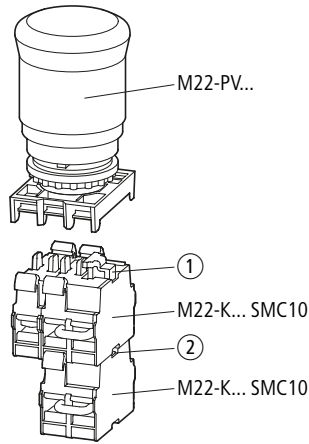
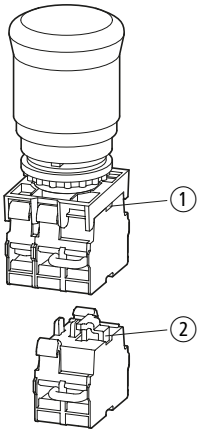


<b>M30C-FRJ45</b> 187086		1 unit
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	For use with	Color	Part no. Article no.	Std. pack	Notes
	<b>Pushbuttons</b>				
	For enclosed overload relays Mounting hole diameter: 22.3 mm				
	ZW7... ZB12		<b>M22-DZ-B</b> 254833	10 units	Blue button plate
	ZB32 ZB65 ZB150		<b>M22-DZ-B-GB14</b> 254834		Blue button plate Inscription: RESET
			<b>M22-DZ-X</b> 254835		Without button plate, add button plate
	<b>Bulb extractor</b>				
	For M22-LC(H)... compact indicator light				
	A22-GL... A22-LED...	–	<b>M22-LG</b> 216403	5 units	–
	<b>Notching tool</b>				
	Punching tool used to produce the cutout for the anti-rotation tab as defined in IEC/EN 60947-5-1 St 37 sheet steel: max. 3 mm thickness Stainless steel: max. 1.5 mm thickness				
		–	<b>BA/C-NZ-22</b> 028144	1 unit	
	<b>Customized complete devices</b>				
	To order, use form F0315 → Data sheet in online catalog				
	–	–	<b>M22-COMBINATION</b> 2010741	1 unit	–

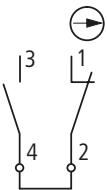
Engineering

M22...SMC10

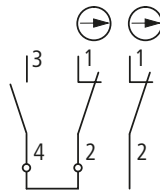


- ① The self-monitoring contact mechanically monitors the connection on the M22-PV...
- ② The self-monitoring contact mechanically monitors the connection on the M22-K...SMC10 safety contact above it; but not the connection on the M22-PV...

M22-K01SMC10  
M22-KC01SMC10



M22-K02SMC10  
M22-KC02SMC10



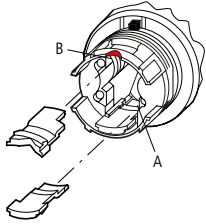
When the self-monitoring contact is mounted correctly, the N/O contact is closed.  
The emergency stop/controlled stop circuit will be activated by means of an N/C and N/O connected in series if:

- The emergency stop/controlled stop button is pressed OR
- The self-monitoring contact is mechanically separated from the pushbutton

Momentary/maintained configuration, plunger bridges, Label Editor, Pushbutton Configurator

1

### Changing between maintained/momentary action and changing the key withdraw on selector switches with 3 positions



	I		O	II	
	A			B	
60° ↘ 60°	-	✓	✓	-	✓
50° ↘ 50°	✓	✓	✓	✓	x
60° ↘ 50°	-	✓	✓	✓	x
50° ↘ 60°	✓	x	✓	-	✓
40° ↘ 40°	✓	x	✓	✓	x
60° ↘ 40°	-	✓	✓	✓	x
50° ↘ 40°	✓	x	✓	✓	x
40° ↘ 60°	✓	x	✓	-	✓
40° ↘ 50°	✓	x	✓	✓	x

✓ = Key is withdrawable  
x = Key is not withdrawable

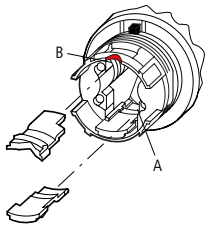
#### Configuration adapters

- 2x M22-XC-Y → Page 30
- 1x M22-XC-R → Page 30
- 1x

### Ordering examples:

- M22-XST insert label for M22S-ST-X label mount with custom inscription  
Basic part no.: M22-XST-\*  
\* = Filename assigned by Label Editor  
Please order: 1 x M22-XST-RMQ\_Titan\_xxxxxx.zip
- Green button plate with custom inscription  
Basic part no.: M22-XDH-\*  
1st \* = Color ("G" for "green" in this case); 2nd \* = Filename assigned by Label Editor  
Please order: 1 x M22-XDH-G-RMQ\_Titan\_xxxxxx.zip
- Double actuator pushbutton with white button plates and custom symbols  
Basic part no.: M22-DDL-\*-\*-\*  
1st \* = Color ("W" for "white" in this case); 2nd and 3rd \* = Filename assigned by Label Editor; must be entered twice  
Please order: 1 x M22-DDL-W-RMQ\_Titan\_xxxxxx.zip-RMQ\_Titan\_xxxxxx.zip
- Key-operated button, 2 positions, individual lock mechanism number MS1, custom symbol  
Basic part no.: M22-WRS\*-MS\*-\*  
WRS\*: \* = Number of positions  
MS\*: \* = Individual lock mechanism number  
-\*-\* = Filename assigned by Label Editor  
Please order: 1 x M22-WRS2-MS1-RMQ\_Titan\_xxxxxx.zip

### Changing between maintained/momentary action and changing the key withdraw on selector switches with 2 positions



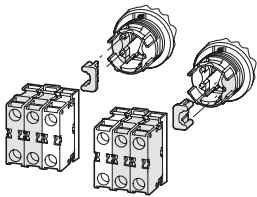
	O	I
		B
↘ 60°	✓	✓
↘ 50°	✓	✓
↘ 40°	✓	✓

✓ = Key is withdrawable  
x = Key is not withdrawable

#### Configuration adapters

- 2x M22-XC-Y → Page 30
- 1x M22-XC-R → Page 30

### Plunger bridge for the middle contact on M22(S)-W...3-... 3-position selector switches



### Customized inscription for devices using the Label Editor function in the Pushbutton Configurator

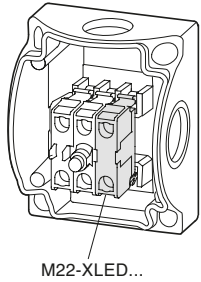
To add a custom inscription to your device, simply follow the four steps below:

- Open the Pushbutton Configurator by visiting: [www.eaton.eu/config/rmq](http://www.eaton.eu/config/rmq)
- Create your label template (the software features menus to guide you through the process)
- Send the label template to the factory by e-mail. The program will automatically set the e-mail address based on the selected product. When you send your template, the Pushbutton Configurator will automatically assign it a filename such as "RMQ\_Titan\_12345.zip". This filename is part of the article no. that needs to be used when ordering (see ordering examples)
- Send the order to the Eaton sales office or the appropriate electrical wholesale distributor

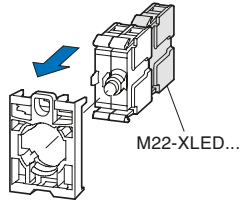
LED series resistor elements

M22-XLED

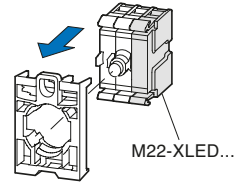
Surface mounting enclosure



Flush mounting at the rear

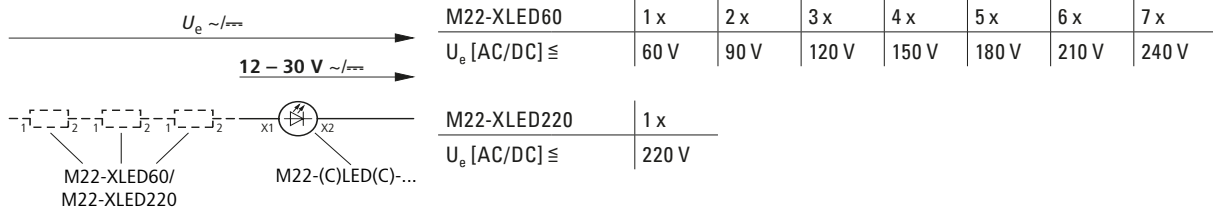


Flush mounting at the side



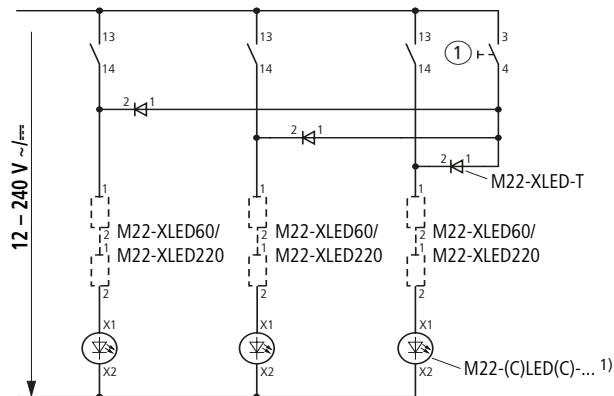
LED resistor element

M22-XLED60/M22-XLED220



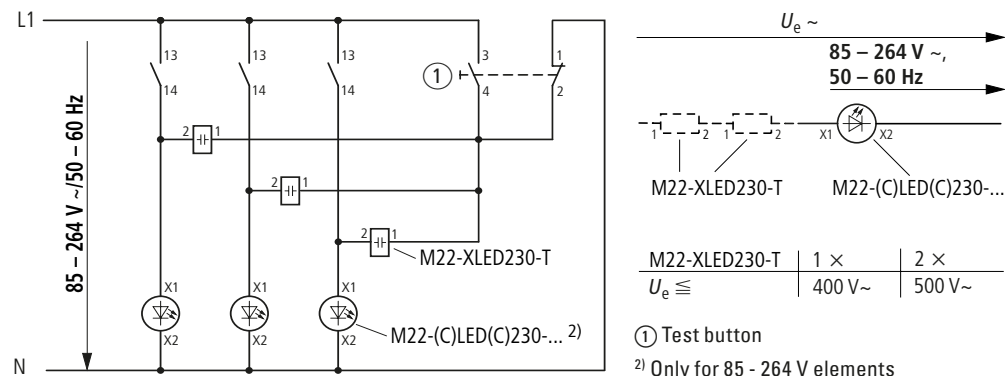
LED test element

M22-XLED-T

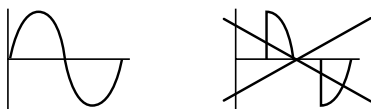


① Test button  
 1) Only for 12 - 30 V elements

M22-XLED230-T



① Test button  
 2) Only for 85 - 264 V elements



## Technical data

				Contact elements		Double contact elements	LED elements		
				M22-(C)K...	M22-FK...	M22-CK20/02/11	M22(C)-LED...	M22-FLED...	
<b>General</b>									
Standards				IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1		
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	5	1	–	–	–	–	
Operating frequency	Operations/h		≤ 3600	≤ 3600	≤ 3600	–	–	–	
Operating force	N		5	4.5	10	–	–	–	
Operating torque (screw terminals)	Nm		0.8	–	–	0.8	–	–	
Degree of protection (IEC/EN 60529)				IP20	IP20	IP20	IP20	IP20	
Climatic proofing				Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30					
Ambient air temperature, open	°C		-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	
Mounting position				Any	Any	Any	Any	Any	
Mechanical shock resistance as defined in IEC 60068-2-27 Shock duration: 11 ms, half sine shock				g	30	50	30	30	50
Terminal capacities									
Solid	mm <sup>2</sup>		0.75 - 2.5	2 x 1 (0.2 - 1.5) 2 x 1 (0.75 - 1.5) <sup>1)</sup>	0.5 - 1.5	0.75 - 2.5	1 x 1 (0.2 - 1.5) 1 x 1 (0.75 - 1.5) <sup>1)</sup>		
Stranded	mm <sup>2</sup>		0.5 - 2.5	–	0.5 - 1.5	0.5 - 2.5	1 x 1 (0.2 - 1.5)		
Flexible with ferrule	mm <sup>2</sup>		0.5 - 1.5	2 x 1 (0.25 - 1) <sup>2)</sup>	0.5 - 1.5	–	1 x 1 (0.25 - 1) <sup>2)</sup>		
<b>Contacts</b>									
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000	4000	–	6000	4000	–	
Rated insulation voltage	U <sub>i</sub>	V	500	250	–	500	250	–	
Overvoltage category/degree of pollution				III/3	III/3	III/3	III/3	III/3	
Control circuit reliability									
At 24 V DC/5 mA	H <sub>F</sub>	Failure rate	< 10 <sup>-7</sup> (i.e., one failure every 10 <sup>7</sup> operations)	–	–	–	–	–	
At 5 V DC/1 mA	H <sub>F</sub>	Failure rate	< 5 x 10 <sup>-6</sup> (i.e., one failure every 5 x 10 <sup>6</sup> operations)	–	–	–	–	–	
Max. short-circuit protective device									
Fuseless		Part no.	PKZM0–10/FAZ-B6/1	FAZ-B4	–	–	–	–	
Fuse	gG/gL	A	10	4	–	–	–	–	
<b>Switching capacity</b>									
Rated operational current									
AC-15	24 V	I <sub>e</sub>	A	–	4	–	–	–	
	60 V	I <sub>e</sub>	A	–	4	–	–	–	
	100 V	I <sub>e</sub>	A	–	2	–	–	–	
	115 V	I <sub>e</sub>	A	6	–	–	–	–	
	230 V	I <sub>e</sub>	A	6	1.5	–	–	–	
	400 V	I <sub>e</sub>	A	4	–	–	–	–	
	500 V	I <sub>e</sub>	A	2	–	–	–	–	
DC-13	24 V	I <sub>e</sub>	A	3	1.5	–	–	–	
	42 V	I <sub>e</sub>	A	1.7	–	–	–	–	
	60 V	I <sub>e</sub>	A	1.2	0.8	–	–	–	
	110 V	I <sub>e</sub>	A	0.6 (M22-CK...: 0.8)	0.4	–	–	–	
	220 V	I <sub>e</sub>	A	0.3	0.2	–	–	–	
			I <sub>e</sub>	A			–	–	–
Lifespan, electrical									
AC-15	230 V/0.5 A	Operations	x 10 <sup>6</sup>	1.6	–	–	–	–	
	230 V/1.0 A	Operations	x 10 <sup>6</sup>	1	–	–	–	–	
	230 V/3.0 A	Operations	x 10 <sup>6</sup>	0.7	–	–	–	–	
DC-13	12 V/2.8 A	Operations	x 10 <sup>6</sup>	1.2	–	–	–	–	

## Notes

<sup>1)</sup> Can be plugged without tools<sup>2)</sup> Use WAGO Variocrimp 4 crimping tool; please enquire for others



	AS-Interface connection for RMQ-Titan		Adapter element for RMQ-Titan	
		RMQ-M1C-ASI	M22-ASI	M22-ASI-C
<b>General</b>				
Standards		EN 50081-1 EN 50082-1	IEC/EN 60947, DIN EN 50 295	IEC/EN 60947, DIN EN 50 295
Radio interference suppression		EN 55011, EN 55022	EN 55011, EN 55022	EN 55011, EN 55022
Limit value class		A	–	–
Degree of protection		IP20	IP20	IP00
Climatic proofing		Damp heat, constant as defined in IEC 60068-2-78; Damp heat, cyclic as defined in IEC 60068-2-30		
Ambient temperature, open	°C	+25 - +55	+25 - +55	+25 - +55
Mechanical shock resistance for a shock duration of 11 ms	g	> 30	> 30	> 30
Vibrations as per IEC 60068-2-27 (amplitude: 1 mm)	Hz	10 - 55	–	–
Dimensions (W x H x D)	mm	92 x 46 x 30	–	–
Weight	kg	0.1	–	–
Mounting		RMQ-Titan front mounting	RMQ-Titan front mounting	RMQ-Titan base mounting
Mounting position		Any	Any	Any
<b>Power supply</b>				
Rated operating voltage as per AS-Interface specifications	V DC	26.5 - 31.6	26.5 - 31.6	26.5 - 31.6
Terminal type		–	Yellow plug-in terminal as insulation piercing terminal	2 cables on PCB
Power supply		Completely from the AS-Interface cable	Completely from the AS-Interface cable	Completely from the AS-Interface cable
Address setting		Via AS-Interface cable connection	Via AS-Interface cable connection	Via AS-Interface cable connection
Total AS-Interface current draw	mA	–	≤ 40	≤ 40
AS-Interface		Protected against polarity reversal	Protected against polarity reversal	Protected against polarity reversal
Rated operational current at full load	mA	120	–	–
Rated operational current when idle (no I, O set)	mA	Normally 30	–	–
LED status indicators		AS-Interface voltage: green LED	AS-Interface POWER line: green LED on element rear AS-Interface ERROR, AS-Interface master failure: red LED on element rear	AS-Interface POWER line: green LED on PCB AS-Interface ERROR, AS-Interface master failure: red LED on PCB
<b>Inputs</b>				
Inputs; short-circuit proof	Qty.	4 (1 internal + 3 external)	2 (normally 22 V/5 mA)	2 (normally 22 V/5 mA)
Voltage range	V DC	24 - 30	–	–
Operating current per input	mA	Normally 3.5	–	–
Switching level, HIGH signal	V	≥ 15	–	–
LOW signal	mA	–	–	–
Length of connecting cables	cm	≤ 200	–	–
<b>Outputs</b>				
Outputs, short-circuit proof	Qty.	4 (1 internal + 3 external)	1 (normally 19 V/8 mA)	1 (normally 19 V/8 mA)
Voltage range	V DC	24 V DC (+10/-15%)	–	–
Max. current carrying capacity				
All outputs		–	–	–
Sum 3 external outputs		60	–	–
Length of connecting cables	cm	≤ 200	–	–
Profile		S-7.0	S-3.A.E	S-3.A.E
Specification		2.0	2.1	2.1
Addresses	Qty.	31	62	62



	M22-ASI-S	M22-ASI-CS
<b>Emergency stop connections</b>		
AS-Interface cable connection	Yellow plug-in terminal as insulation piercing terminal	2 cables on PCB
Power supply	Completely from the AS-Interface, cable, 26.5 - 31.6 V DC	Completely from the AS-Interface, cable, 26.5 - 31.6 V DC
Mounting	RMQ-Titan front mounting	RMQ-Titan base mounting
Address setting	Via AS-Interface cable	Via AS-Interface cable
Max. total current	mA 45	45
Ambient air temperature	°C -25 - +55	-25 - +55
Mechanical shock resistance	30 g/11 ms as defined in IEC 60068-2-27	30 g/11 ms as defined in IEC 60068-2-27
Degree of protection	IP20	IP00
Climatic proofing	Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30	Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30
Mounting position	Any	Any
Standards	EN 50178 EN 50295	EN 50178 EN 50295
Inputs	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 N/C contact elements)	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 N/C contact elements)
Outputs	1 output, normally 19 V/8 mA, short-circuit proof	1 output, normally 19 V/8 mA, short-circuit proof
<b>Status indicators</b>		
AS-Interface POWER cable	Green LED on rear	Green LED on rear
AS-Interface ERROR, AS-Interface master failure	Red LED on rear	Red LED on rear
Profile	S-7.B.E	S-7.B.E

UL File No. 29184	Pilot duty	General use	Wire gauges
<b>Rating data for UL/CSA-listed models</b>			
RMQ16 contact elements			
E 10	C 300, Q 300		Cu cable
E01	C 300, R 300		Min. AWG 18, Max. AWG 14
RMQ-Titan contact elements			
M22-K...	A 600, Q 300,	10 A - 600 V AC	2 x 14 ... 18 AWG
M22-CK...	> 300 V AC same polarity	1 A - 250 V DC	2 x 12 ... 22 AWG
RMQ-Titan LED elements			
M22-LED...			2 x 14 ... 18 AWG
M22-CLED...			2 x 12 ... 22 AWG
M22-LC(H)			2 x 16 ... 20 AWG
M22-AMC			2 x 16 ... 20 AWG

		UL 508 requirements UL 4X	NEMA recommendation NEMA 13
<b>RMQ-Titan degrees of protection</b>			
All front elements	M22(S)-...	✓	✓
Add-on legend plates	M22S-ST...	✓	✓
Emergency stop legend plates	M22-XAK...	✓	✓
	M22-XZK...	✓	✓
	M22-XBK...	✓	✓
	M22-XYK...	✓	✓
Foot and palm switches	FAK-...	✓	✓

M22-SWD-K11

M22-SWD-KC11

M22-SWD-LED-...

**General**

Standards		IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)	mm	12 x 42 x 39	12 x 45 x 37	10 x 42 x 45
Weight	g	10	10	10
Mounting position		Any		

**Ambient mechanical conditions**

Degree of protection (IEC/EN 60529)		IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)				
Constant amplitude of 3.5 mm	Hz	5 - 8.4	5 - 8.4	5 - 8.4
Constant acceleration of 1 g	Hz	8.4 - 150	8.4 - 150	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27), half sine shock: 15 g/11 ms	Shocks	9	9	9
Drop (IEC/EN 60068-2-31)	Drop height	mm	50	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3	0.3

**Electromagnetic compatibility (EMC)**

Overvoltage category		Not applicable		
Pollution degree		2	2	2
Electrostatic discharge (IEC/EN 61131-2:2008)				
Air discharge (level 3)	kV	8	8	8
Contact discharge (level 2)	kV	4	4	4
Electromagnetic fields (IEC/EN 61131-2:2008)				
80 - 1000 MHz	V/m	10	10	10
1.4 - 2 GHz	V/m	3	3	3
2 - 2.7 GHz	V/m	1	1	1
Radio interference suppression (SmartWire-DT)		EN 55011 Class A		
Burst (IEC/EN 61131-2:2008, level 3)				
Supply cables	kV	2	2	2
SmartWire-DT cables	kV	1	1	1
Radiated RFI (IEC/EN 61131-2:2008, level 3)	V	10	10	10

**Ambient climatic conditions**

Operating ambient temperature (IEC 60068-2)	°C	-30 - +55	-30 - +55	-30 - +55
Condensation		Must be prevented with suitable measures		
Storage	°C	-40 - 80	-40 - 80	-40 - 80
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	9 - 95	9 - 95	9 - 95

**SmartWire-DT network**

Module type		SmartWire-DT module (slave)		
Baud rate setting		Automatic		
SmartWire-DT status LED		Green		
Connections		Pin header, 8-pin		
Plug connector		SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5
Number of insertion cycles		50	50	50

**Function element**

Contacts		1 changeover contact	1 changeover contact	–
Lifespan, mechanical/electrical	Operations	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	–
LED indicator		No	No	Yes
Diagnostics		Yes	Yes	No
Mounting		Front mounting	Base mounting	Front mounting

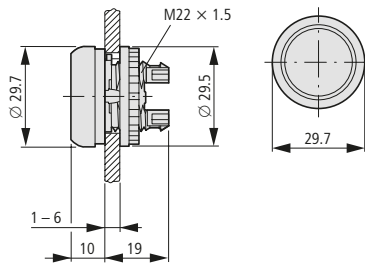
M22-SWD-LEDC-...	M22-SWD-K11LED-...	M22-SWD-K11LEDC-...	M22-SWD-K22	M22-SWD-KC22	M22-SWD-K22LED-...	M22-SWD-K22LEDC-...
IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178
10 x 45 x 42	12 x 42 x 45	12 x 45 x 42	17 x 42 x 39	17 x 45 x 37	17 x 42 x 45	17 x 45 x 42
10	10	10	14	14	14	14
Any						
IP20	IP20	IP20	IP20	IP20	IP20	IP20
5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4
8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150
9	9	9	9	9	9	9
50	50	50	50	50	50	50
0.3	0.3	0.3	0.3	0.3	0.3	0.3
Not applicable						
2	2	2	2	2	2	2
8	8	8	8	8	8	8
4	4	4	4	4	4	4
10	10	10	10	10	10	10
3	3	3	3	3	3	3
1	1	1	1	1	1	1
EN 55011 Class A						
2	2	2	2	2	2	2
1	1	1	1	1	1	1
10	10	10	10	10	10	10
-30 - +55						
Must be prevented with suitable measures						
-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80
9 - 95	9 - 95	9 - 95	5 - 95	5 - 95	5 - 95	5 - 95
SmartWire-DT module (slave)						
Automatic						
Green						
Pin header, 8-pin						
M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP	SWD4-8SF2-5	M22-SWD-I...LP
50	50	50	50	50	50	50
-	1 changeover contact	1 changeover contact	2 changeover contacts	2 changeover contacts	2 changeover contacts	2 changeover contacts
-	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>
Yes	Yes	Yes	No	No	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes	Yes
Base mounting	Front mounting	Base mounting	Front mounting	Base mounting	Front mounting	Base mounting

		SWD4-RC8-10	SWD4-8SF2-5	SWD4-8SFF2-5
<b>General</b>				
Standards		IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)	mm	48.5 x 34.5 x 10	15 x 36.5 x 17.5	48.5 x 34.5 x 10
Weight	g	10	5.5	4.5
Mounting position		Any	Any	Any
<b>Ambient mechanical conditions</b>				
Degree of protection (IEC/EN 60529)		IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)				
Constant amplitude of 3.5 mm	Hz	5 - 8.4	5 - 8.4	5 - 8.4
Constant acceleration of 1 g	Hz	8.4 - 150	8.4 - 150	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) half sine shock: 15 g/11 ms	Shocks	9	9	9
Drop (IEC/EN 60068-2-31)	Drop height	mm	50	–
Free fall, packaged (IEC/EN 60068-2-32)	m	0.3	–	–
Electromagnetic compatibility (EMC)				
Overvoltage category		II	–	–
Pollution degree		2	–	–
<b>Electrostatic discharge (IEC/EN 61131-2:2008)</b>				
Air discharge (level 3)	kV	8	–	8
Contact discharge (level 2)	kV	4	–	4
Electromagnetic fields (IEC/EN 61131-2:2008)				
80 - 1000 MHz	V/m	10	–	–
1.4 - 2 GHz	V/m	3	–	–
2 - 2.7 GHz	V/m	1	–	–
Radio interference suppression (SmartWire-DT)		EN 55011 Class A	–	–
Burst (IEC/EN 61131-2:2008, level 3)				
SmartWire-DT cables	kV	1	–	–
Radiated RFI (IEC/EN 61131-2:2008, level 3)	V	10	–	–
<b>Ambient climatic conditions</b>				
Operating ambient temperature (IEC 60068-2)	°C	-25 - +55	-25 - +55	-25 - +55
Condensation		Must be prevented with suitable measures		
Storage	°C	-40 - 70	-40 - 70	-40 - 70
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	5 - 95	5 - 95	5 - 95
<b>Connection options</b>				
SWD In		Pin header, 8-pin	Male connector	Pin header, 8-pin
Number of insertion cycles		≥ 200	1	≥ 200
SWD Out		–	Socket, 8-pin	Pin header, 8-pin
Number of insertion cycles		–	≥ 200	≥ 200

SWD4-SF8-20	SWD4-SM8-20	SWD4-8FRF-10	SWD4-SFL8-20	SWD4-SML8-20
IEC/EN 61131-2 EN 50178				
24 x 26 x 162	24 x 26 x 170	35 x 90 x 35	35 x 83 x 40	35 x 83 x 46
20	22.5	42	50	50
Any	Any	Any	Any	Any
IP67	IP67	IP20	IP67	IP67
		5 - 8.4	5 - 8.4	5 - 8.4
		8.4 - 150	8.4 - 150	8.4 - 150
-	-	9	9	9
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	8	8	8
-	-	4	4	4
-	-	-	10	10
-	-	-	3	3
-	-	-	1	1
-	-	-	-	-
-	-	-	-	-
-	-	-	10	10
-25 - +55	-25 - +55	-25 - +55	-25 - +55	-25 - +55
Must be prevented with suitable measures				
-40 - 70	-40 - 70	-40 - 70	-40 - 70	-40 - 70
5 - 95	5 - 95	5 - 95	5 - 95	5 - 95
-	Plug, 8-pin	Pin header, 8-pin	Pin header, 8-pin	Plug, 8-pin
-	≥ 500	≥ 200	≥ 200	≥ 500
Socket, 8-pin	-	Push-in terminals	Socket, 8-pin	Pin header, 8-pin
≥ 500	-	-	≥ 500	≥ 200

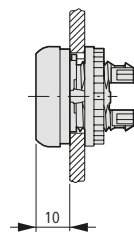
## Dimensions

### Pilot device elements

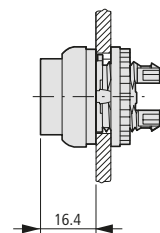


### RMQ-Titan pushbuttons

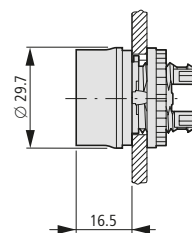
M22...-D...



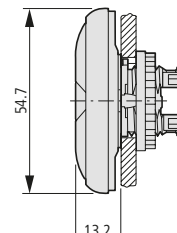
M22...-DH...



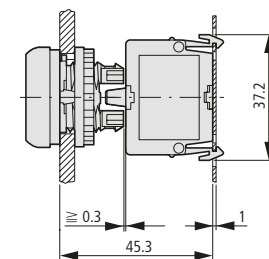
M22-DG(L)...



M22...-DD...

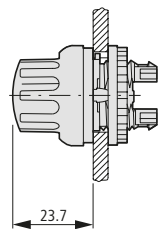


M22-D pushbuttons with base mounting

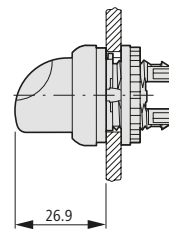


### RMQ-Titan selector switches

M22-W...



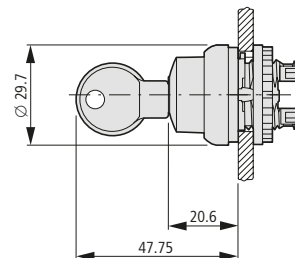
M22...-W(K)L...



### RMQ-Titan key-operated buttons

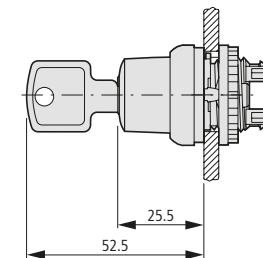
Individual lock mechanism

M22...-W(R)S...



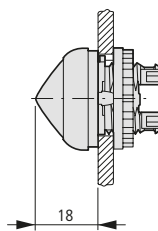
### Master key systems

M22...-W...S-SA...

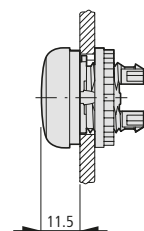


### RMQ-Titan indicator lights

M22-LH-...

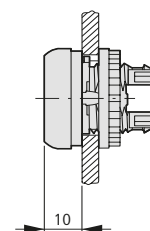


M22-L...

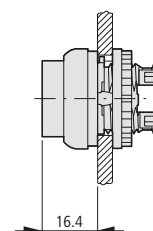


### RMQ-Titan illuminated pushbutton actuators

M22...-DL-...

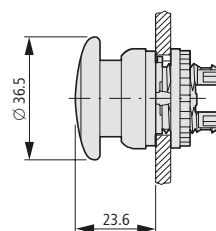


M22...-DLH...



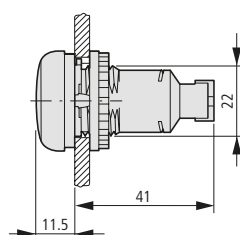
### RMQ-Titan mushroom pushbuttons

M22...-DP-...

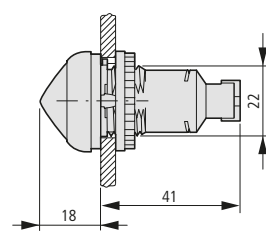


### Compact indicator lights Compact acoustic devices

M22-LC-...  
M22-AM...

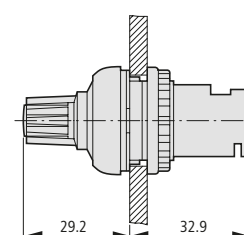


M22-LCH-...



### Potentiometers

M22...-R...K



**Controlled stop/emergency stop buttons**

Mushroom-shaped

M22-PV...

M22S-PV...

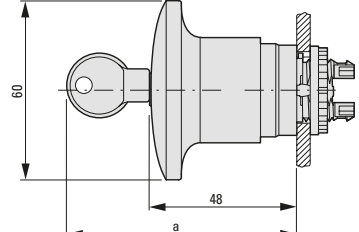
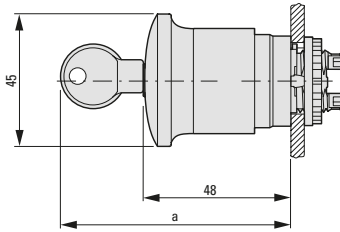
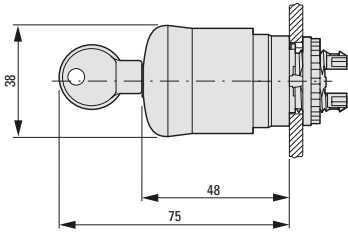
M22-PVL...

M22-PVS...

Palm shaped

M22-PV...45...

M22-PV...60...



**Front mounting (style: flush mounting)**

Mounting adapters

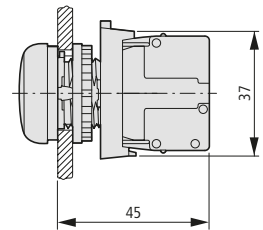
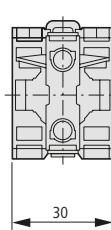
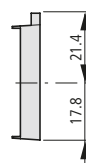
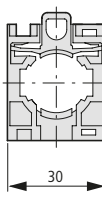
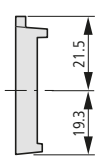
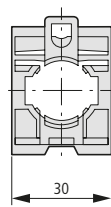
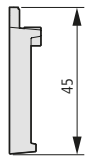
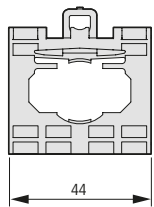
M22-A4

M22-A

Centering adapter

M22-ZA

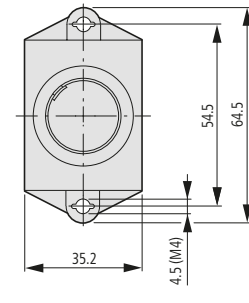
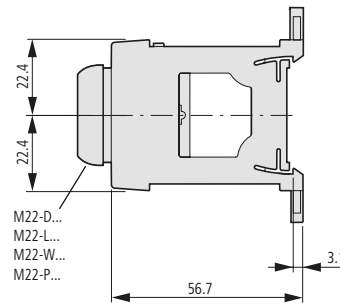
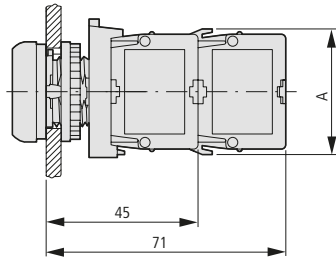
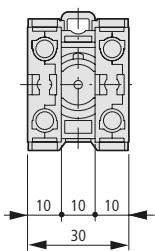
RMQ-Titan indicator lights



**Buttons with M22-(C)K...**

**Buttons with M22-(C) LED... + M22-XLED...**

**IVS top-hat rail adapter**

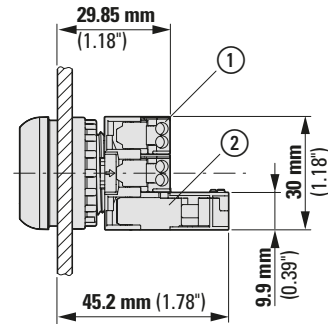
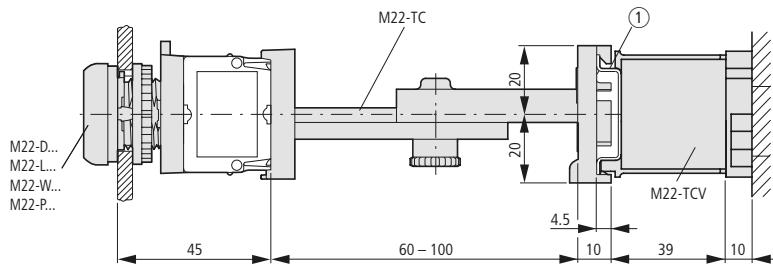


	1 x M22-K...	2 x M22-K...	1 x M22-CK...	2 x M22-CK...
A	37.2	37.2	39	39

**Pushbuttons, indicator lights with M22-TC telescopic clip and M22-TCV extension**

**Pushbuttons with Flat Rear contact element ①**

**Pushbuttons with standard contact element ②**



① IEC/EN 60715 DIN-rail

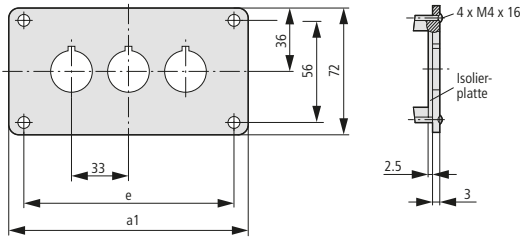
① M22-FK10(01)  
② M22-(C)K...

1

#### Front mounting (style: flush mounting)

RMQ-Titan mounting plates

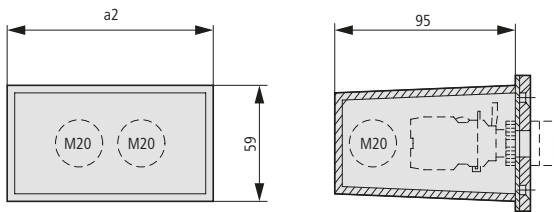
M22-E...



Part no.	a1	e
M22-E(Y)1	72	56
M22-E2	105	89
M22-E3	138	122
M22-E4	171	155
M22-E5	204	188
M22-E6	237	221

#### Shrouds

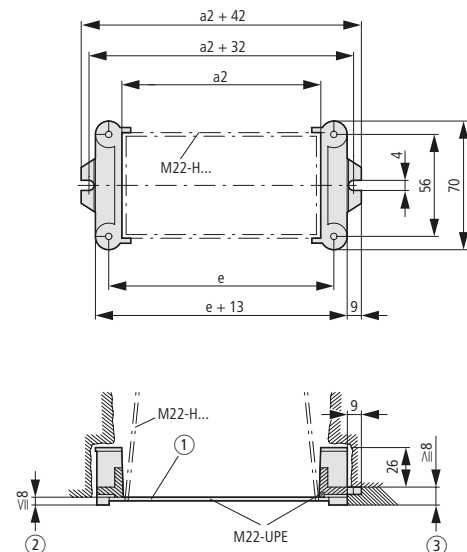
M22-H...



Part no.	a2	Cable entry	Design
M22-H1	42	3 x M20	One-piece
M22-H2	75	4 x M20	
M22-H3	108	4 x M20	
M22-H4	141	4 x M20	Split
M22-H5	174	5 x M20	
M22-HE6	207	6 x M20	

Shroud with plaster keys

M22-UPE

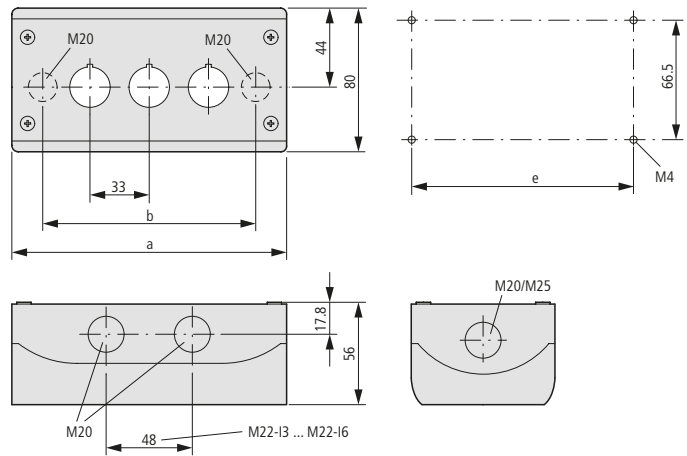


- ① Box for proper plasterboard mounting
- ② Plaster thickness of less than 8 mm
- ③ Plaster thickness of more than 8 mm

#### Base mounting (style: surface mounting)

RMQ-Titan surface mounting enclosures

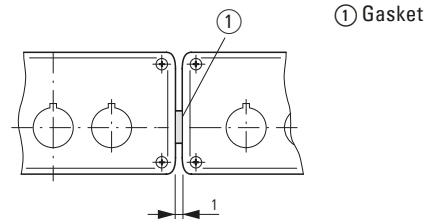
M22-I...



Part no.	Mounting locations	a	b	e	Cable entries		
					2 x M16	3 x M20	2 x M25
M22-I(Y)1	1	72	42.6	58.5	2 x M16	3 x M20	2 x M25
M22-I2	2	120	85.6	106.5	2 x M20	3 x M20	2 x M25
M22-I3	3	153	118.6	139.5	2 x M20	2 x M25	4 x M20
M22-I4	4	186	151.6	172.5	2 x M20	2 x M25	4 x M20
M22-I6	6	252	217.6	238.5	2 x M20	2 x M25	4 x M20

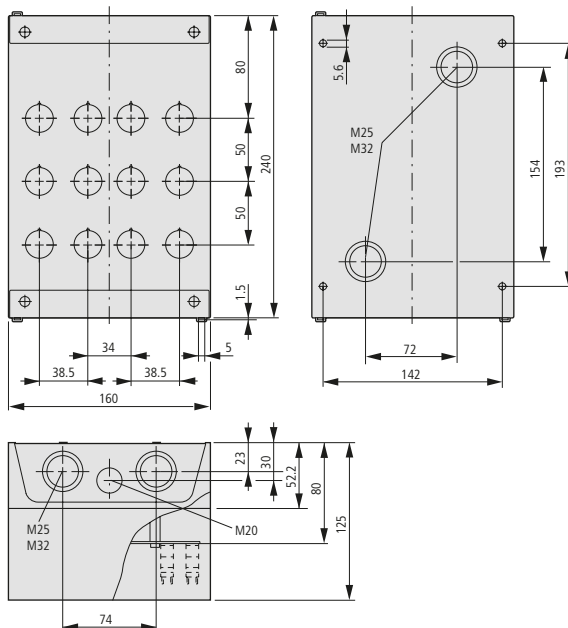
Combination of surface mounting enclosures

M22-XI



Surface mounting enclosure for 12 mounting locations

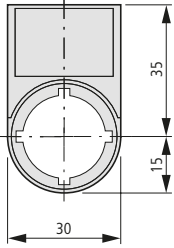
M22-I12



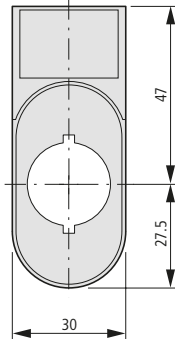


Legend holders

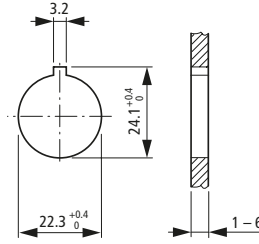
M22S-ST...



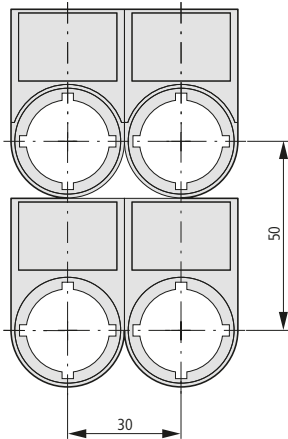
M22S-STDD-X



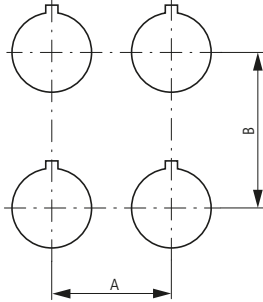
Mounting hole with key slot for M22..., C22...



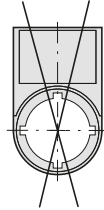
Grid dimensions as defined in IEC/EN 60947



Grid dimensions for various combinations

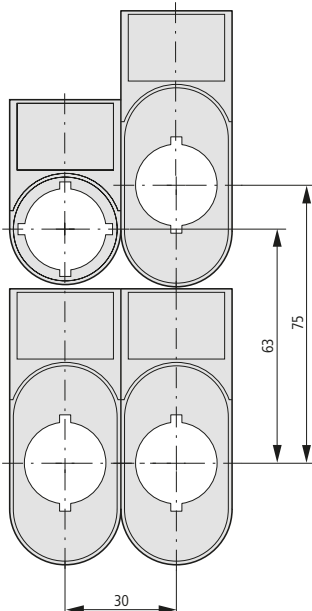


Pushbutton diaphragm cannot be combined with label mount

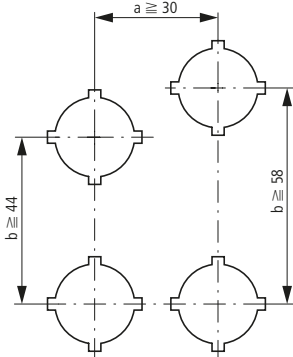


Part no.	A ≥ mm	B ≥ mm
M22(N/O)-... (IEC/EN 60947)	30	50
RMQ-Titan min.	30	40
M22-D... + M22-T-D	33	40
M22-D(R)P...	38	40
M22-PV...	45	45
M22-PV...45	55	55
M22-PV...60	70	70
M22-PV(L) + M22-PL-PV	48	56
M22-PV(L)(N/O...) + M22-D...	33	40
M22-DDL...	30	55
M22-DDL... + M22-T-DD	33	58
M22-ST...	30	50
M22-STDD...	30	75
M22-CK...	30	45
M22-CLED...	30	45
M22-XAK...	90	90
M22-XZK...	33	52
M22-XBK...	60	60
M22-XYK...	50	50
M22-D4	60	60
M22-WR...4	50	50
M22-W...J4	100	100

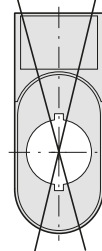
Grid dimensions for M22-DD...



Grid dimensions for M22-DDL



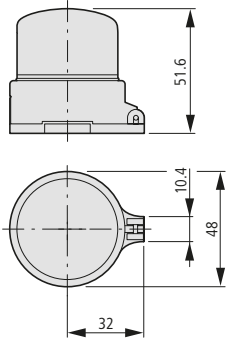
M22-T-DD pushbutton diaphragm  
Pushbutton diaphragm cannot be combined with label mount



1

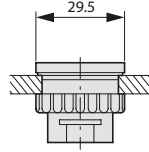
#### Emergency stop sealable shroud

M22-PL-PV



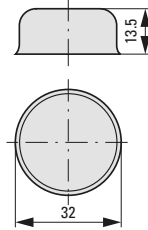
#### Blanking plug

M22...B-...

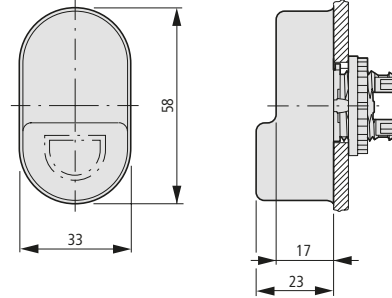


#### Pushbutton diaphragms

M22-T-D

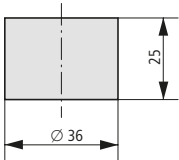


M22-T-D

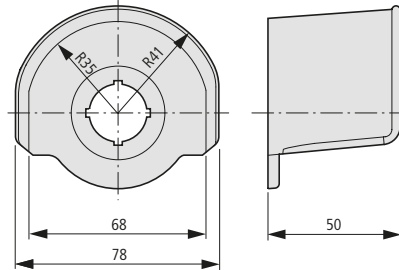


#### Guard rings

M22-XGWK

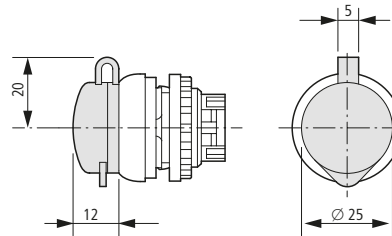


M22-XGPV



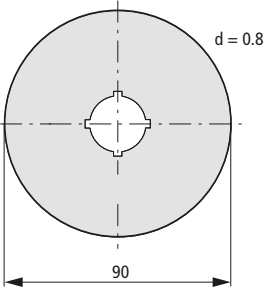
#### Protective diaphragm

M22-XWS

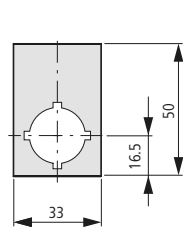


#### Controlled stop legend plates

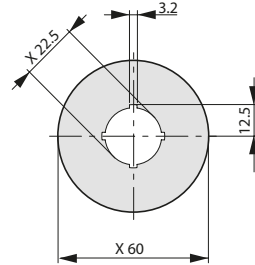
M22-XAK...



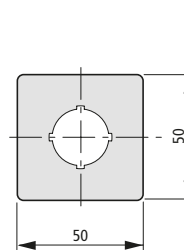
M22-X(Y)ZK...



M22-XBK-...

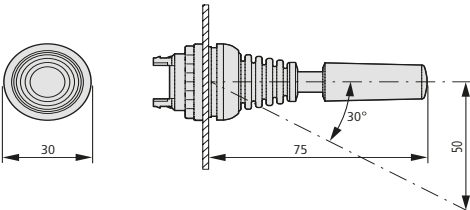


M22-XYK-...



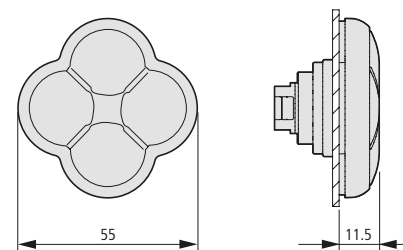
#### Joysticks

M22...-W...J...



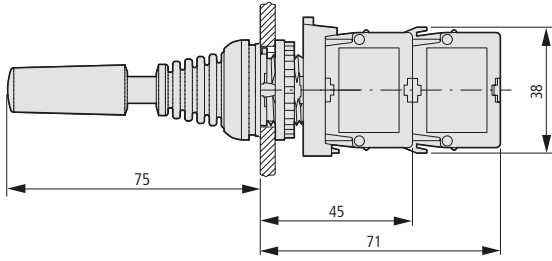
#### 4-way pushbuttons

M22-D...4-...



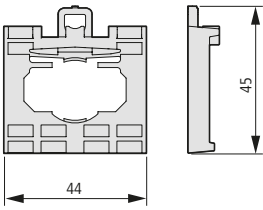
**Joysticks**

M22-WJ..., M22-WRJ...

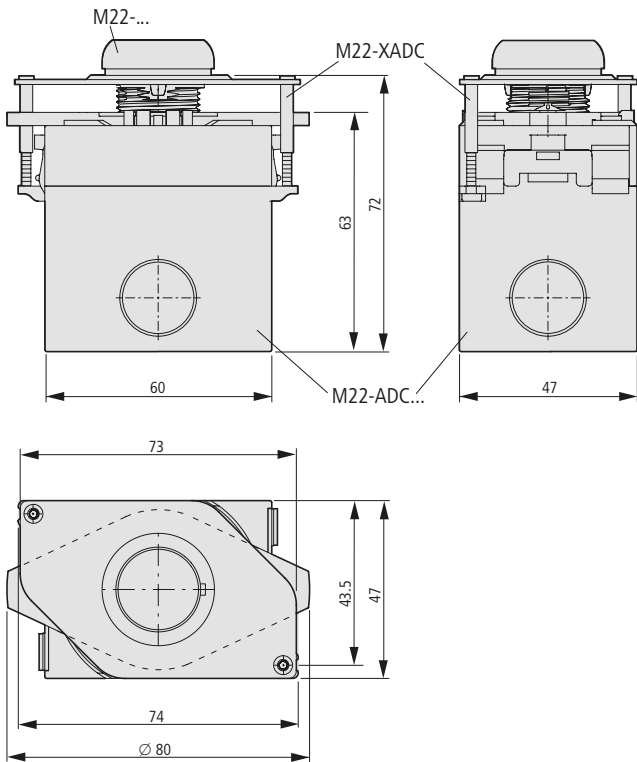


**Mounting adapter**

M22-A4



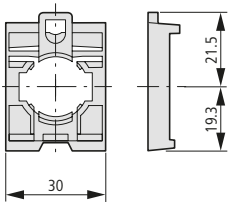
**Dust covers**



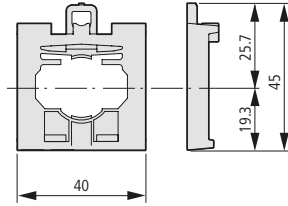
1

#### Mounting adapters (front mounting) for 3 contact/LED elements

M22-A

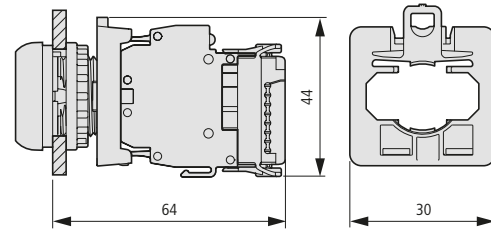


M22-SWD-A4



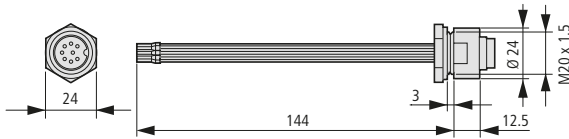
#### Function elements

M22-SWD-K...  
M22-SWD-LED...



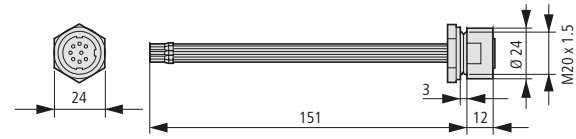
#### Housing bushing plug

SWD4-SM8-20



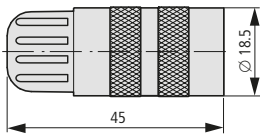
#### Housing bushing socket

SWD4-SF8-20

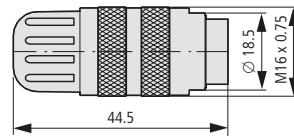


#### Plug connector for SmartWire-DT round cable, straight

SWD4-SF8-67

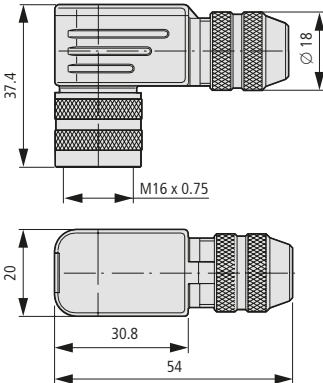


SWD4-SM8-67

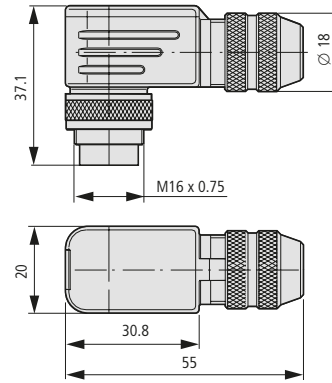


#### Plug connector for SmartWire-DT round cable, right angle

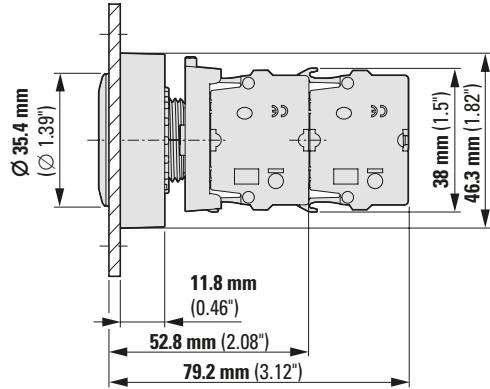
SWD4-SF8-67W



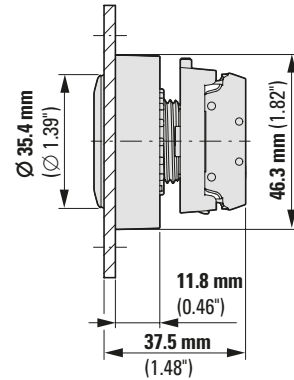
SWD4-SM8-67W



M30.... with 2 M22-K... standard contact elements

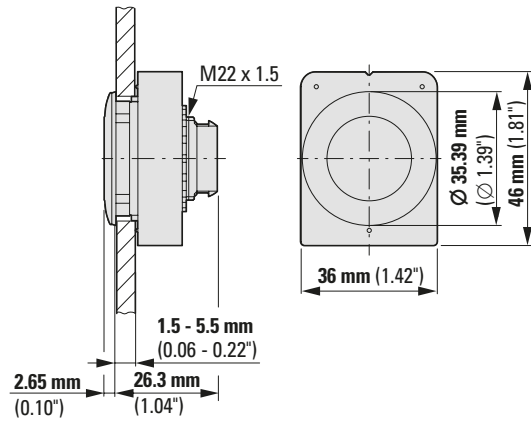


M30.... with M22-FK... Flat Rear contact elements



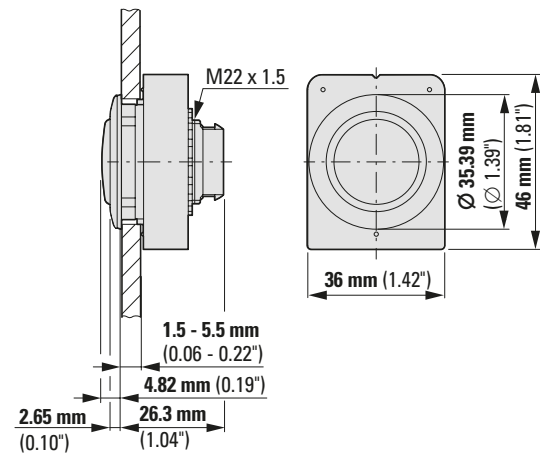
Pushbuttons, blanking plug

M30C-FD...  
M30C-FB



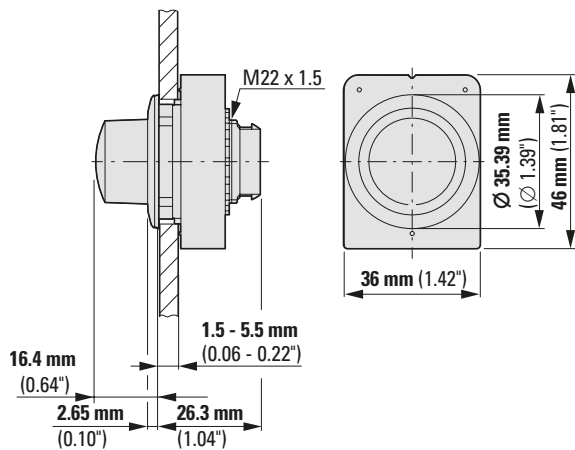
Indicator lights

M30C-FL...



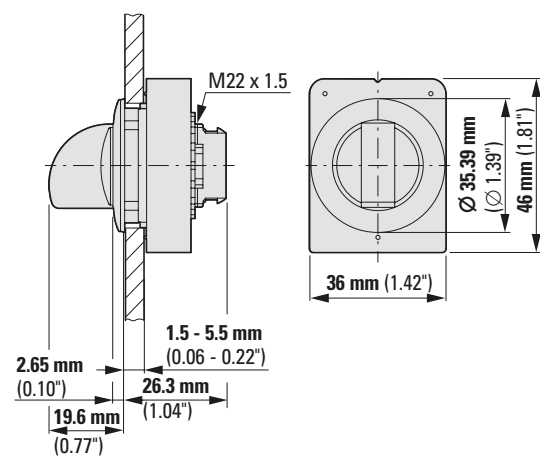
Selector switches

With rotary head  
M30C-FW...



(Illuminated) selector switches

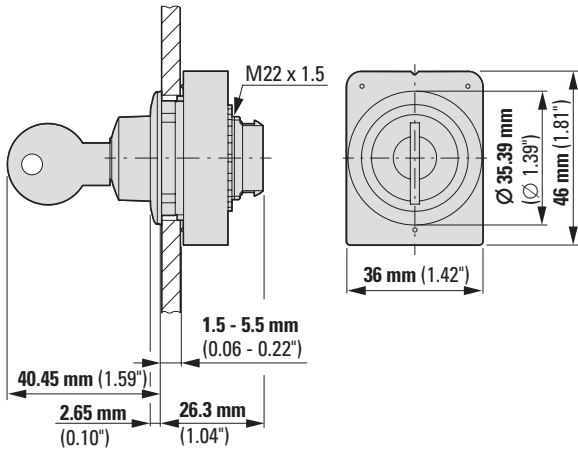
With thumb-grip, 4-way  
M30C-FW(L)K(V)...



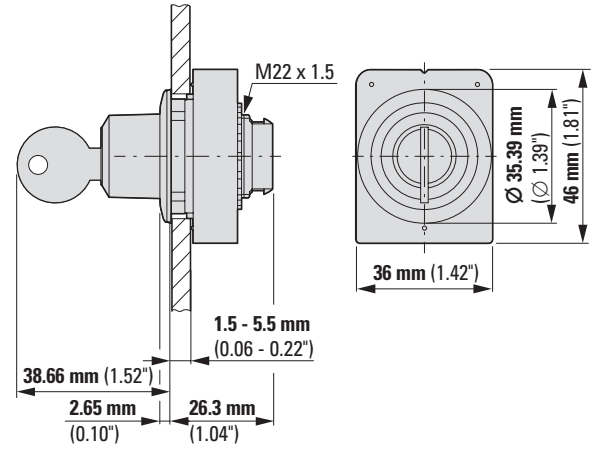
#### 1

#### Key-operated buttons

M30C-FW(R)S(3)-MS...

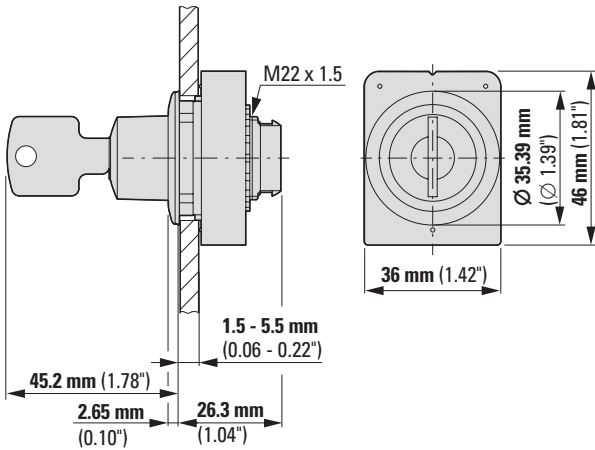


M30C-FW(R)S(3)-RS...



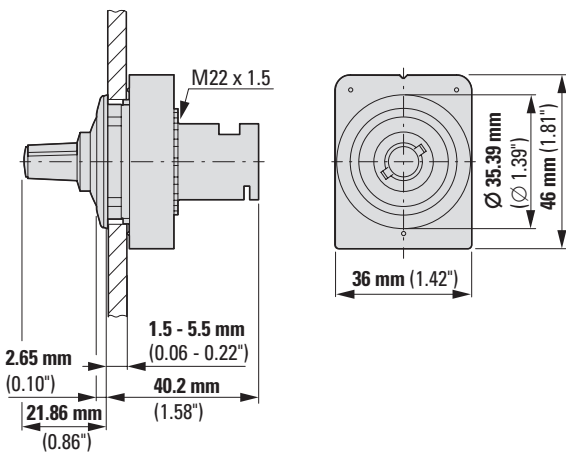
#### Key-operated buttons

M30C-FW(R)S(3)-SA...



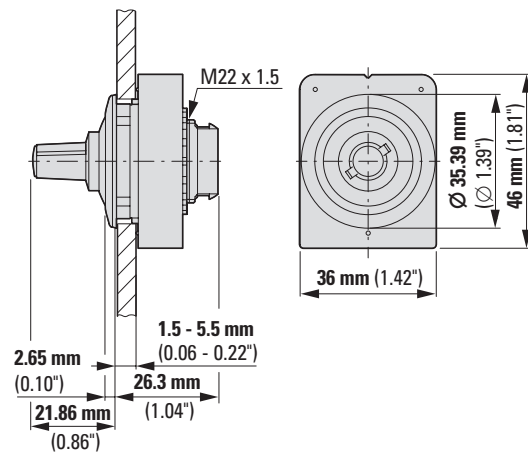
#### Potentiometers

M30C-FR...



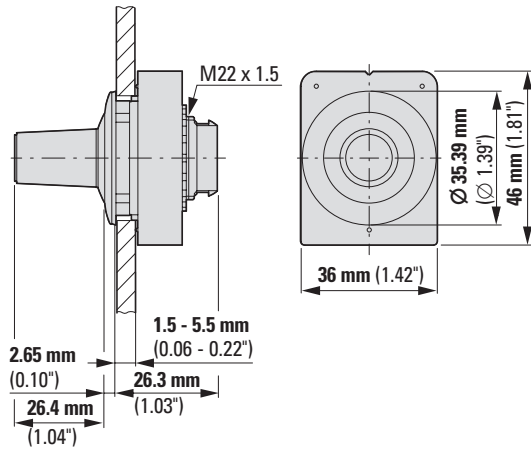
#### Potentiometers, SmartWire-DT

M30C-FR-SWD



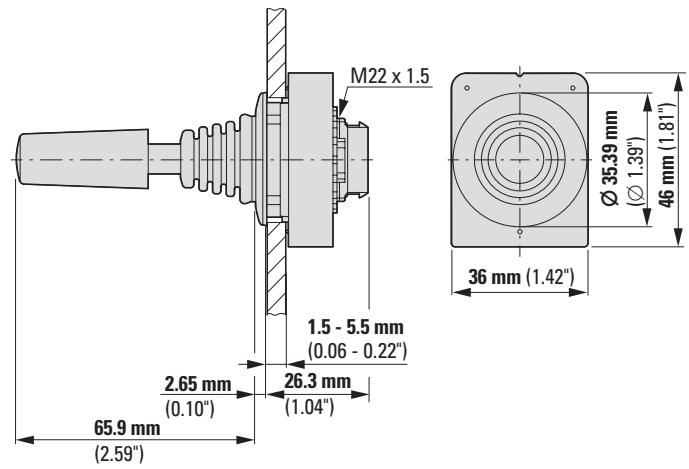
Encoders, SmartWire-DT

M30C-FINC-SWD

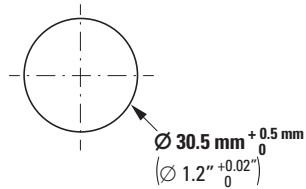


Joysticks

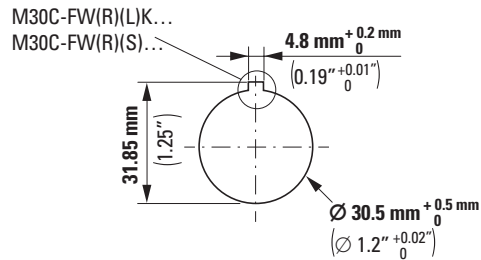
M30C-FW(R)JS...



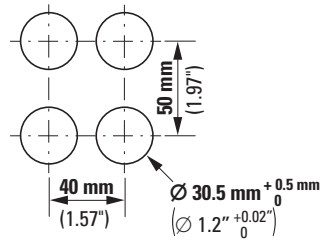
Mounting hole without key slot



Mounting hole with key slot



Grid dimensions for various combinations



# Build it in.



## RMQ *compact* solution Simple. Reliable. Compact.



Download the brochure  
by visiting the product page  
[www.eaton.eu/RMQcompact](http://www.eaton.eu/RMQcompact)

The C22 and C30 RMQ *compact* solution series combine connection cables with or without a plug connection together with signaling and operator elements into a single device. This turns them into an all-in-one solution that provides full protection against dust, fine foreign particles, and liquids, for example. Thanks to a high degree of protection of up to IP69K in the front and IP65 in the back, these devices are perfect for direct installation in applications such as woodworking machines and similar machine tools.

RMQ *compact* solution devices feature a sleek design that enhances machines, systems, and a broad range of additional applications. Whether you decide on our traditional C22 design or on the flush C30 version, you can rest assured knowing that we have a solution for every application out there.



C20  
C30



**2.0 RMQ compact solution**

**2.1 System overview**

C22 – System overview . . . . . 96

**2.2 Product selection**

C22 – Controlled stop/emergency-stop buttons. . . . . 98  
 C22 – Pushbuttons. . . . . 99  
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 C22 – Illuminated pushbutton actuators, accessories . . . . . 109

**2.3 System overview**

C30 – System overview . . . . . 110

**2.4 Product selection**

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 C30 – Indicator lights . . . . . 113  
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**2.5 Technical data**

C22/C30 – Technical data . . . . . 115

**2.6 Dimensions**

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 C30 – Dimensions . . . . . 120

# 2.1

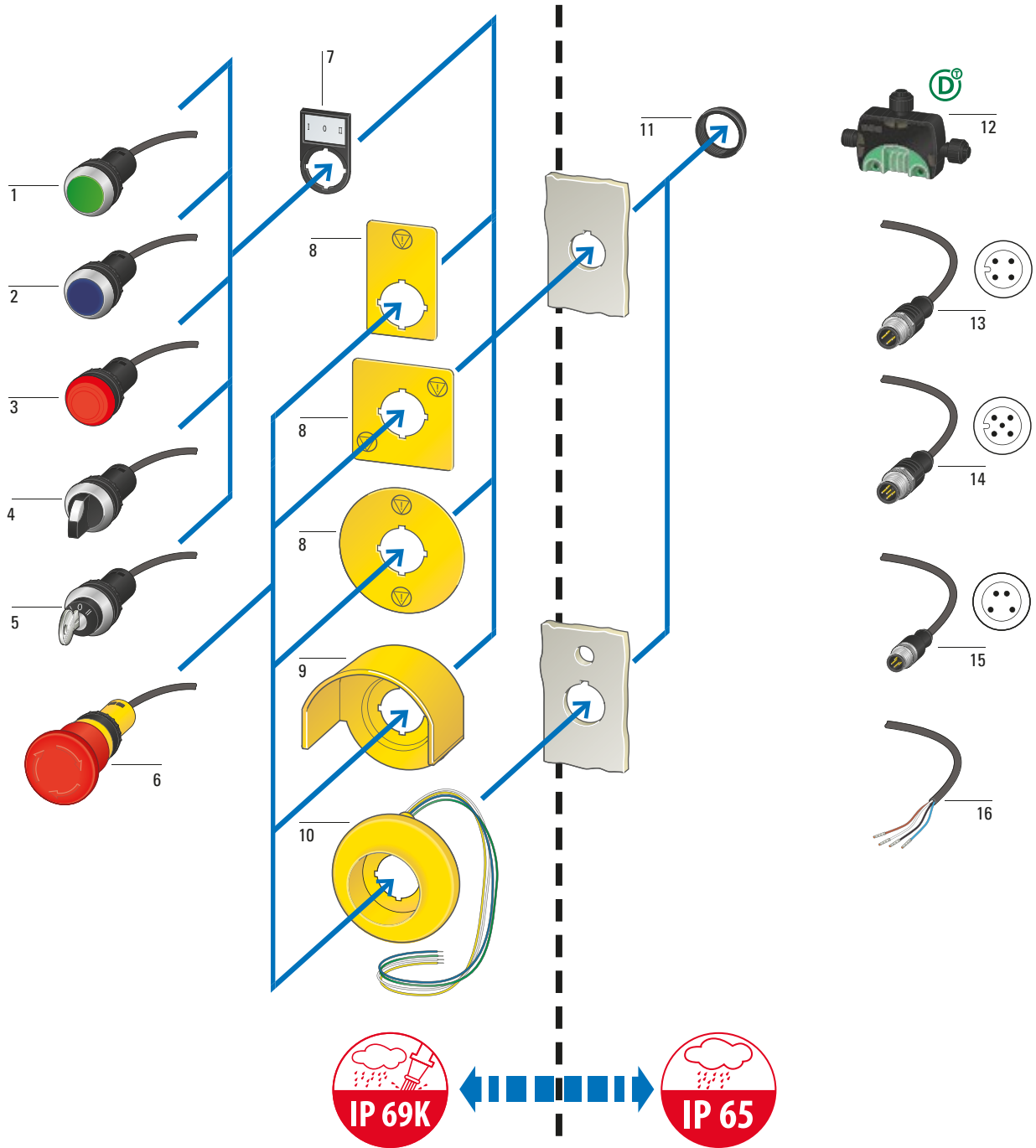
## RMQ compact solution

C22 – System overview

Moeller series

### System overview

2



<p><b>C22 pushbuttons</b> <span style="float: right;"><b>1</b></span></p> <hr/> <p>Momentary and maintained</p> <hr/> <p>Flush</p> <hr/> <p>Colors: white, green, red, black</p> <hr/> <p>With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)</p> <hr/> <p>→ Page 99</p> <hr/> <p><b>C22 illuminated pushbutton actuators</b> <span style="float: right;"><b>2</b></span></p> <hr/> <p>Momentary and maintained</p> <hr/> <p>Flush</p> <hr/> <p>Colors: white, green, red, blue, yellow</p> <hr/> <p>With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)</p> <hr/> <p>24 V AC/DC</p> <hr/> <p>→ Page 108</p> <hr/> <p><b>C22 indicator lights</b> <span style="float: right;"><b>3</b></span></p> <hr/> <p>Flush</p> <hr/> <p>Colors: white, green, red, blue, yellow</p> <hr/> <p>With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)</p> <hr/> <p>24 V AC/DC</p> <hr/> <p>→ Page 106</p> <hr/> <p><b>C22 selector switches</b> <span style="float: right;"><b>4</b></span></p> <hr/> <p>Momentary and maintained</p> <hr/> <p>Flush</p> <hr/> <p>With thumb-grip</p> <hr/> <p>2 or 3 positions</p> <hr/> <p>With cable (0.2/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)</p> <hr/> <p>→ Page 102</p> <hr/>	<p><b>C22 key-operated buttons</b> <span style="float: right;"><b>5</b></span></p> <hr/> <p>Momentary and maintained</p> <hr/> <p>Flush</p> <hr/> <p>2 or 3 positions</p> <hr/> <p>With cable (0.2/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)</p> <hr/> <p>→ Page 103</p> <hr/> <p><b>C22 controlled stop/emergency-stop buttons</b> <span style="float: right;"><b>6</b></span></p> <hr/> <p>Flush</p> <hr/> <p>38 mm and 45 mm diameter</p> <hr/> <p>Mushroom or palm</p> <hr/> <p>Twist or pull release</p> <hr/> <p>Tamper-proof as defined in ISO 13850/EN 418</p> <hr/> <p>European Machinery Safety Directive 2006/42/EC</p> <hr/> <p>With cable (0.2/1/3.5 m) and plug (M12A, 5 pole) or unterminated cable end (4 pole)</p> <hr/> <p>→ Page 98</p> <hr/> <p><b>Label mounts</b> <span style="float: right;"><b>7</b></span></p> <hr/> <p>For insert labels</p> <hr/> <p>Color: black</p> <hr/> <p>Insert labels: aluminum color, with inscription or blank, suitable for engraving</p> <hr/> <p>→ Page 16</p> <hr/> <p><b>Controlled STOP legend plates, IP66</b> <span style="float: right;"><b>8</b></span></p> <hr/> <p>Color: yellow, with black lettering</p> <hr/> <p>Round, rectangular, or square</p> <hr/> <p>With controlled stop inscription or controlled stop symbol</p> <hr/> <p>→ Page 17</p> <hr/> <p><b>Guard rings</b> <span style="float: right;"><b>9</b></span></p> <hr/> <p>For preventing unintended actuation</p> <hr/> <p>For 38 mm and 45 mm designs</p> <hr/> <p>→ Page 16</p> <hr/>	<p><b>Illuminated rings</b> <span style="float: right;"><b>10</b></span></p> <hr/> <p>Versions:</p> <hr/> <p>24 V AC/DC, 120 V AC, 230 V AC</p> <hr/> <p>Continuous light</p> <hr/> <p>Flashing light with separate driver</p> <hr/> <p>Chaser light with separate driver, 24 V AC/DC</p> <hr/> <p>With three LED rows that can be driven separately</p> <hr/> <p>→ Page 16</p> <hr/> <p><b>Threaded rings</b> <span style="float: right;"><b>11</b></span></p> <hr/> <p>→ Page 70</p> <hr/> <p><b>SmartWire-DT I/O module</b> <span style="float: right;"><b>12</b></span></p> <hr/> <p>For connecting digital input/output signals to SmartWire-DT</p> <hr/> <p>IP67</p> <hr/> <p><b>Cable with M12A plug, 4 pole</b> <span style="float: right;"><b>13</b></span></p> <hr/> <p><b>Cable with M12A plug, 5 pole</b> <span style="float: right;"><b>14</b></span></p> <hr/> <p><b>Cable with M8 plug, 4 pole</b> <span style="float: right;"><b>15</b></span></p> <hr/> <p><b>Cable end open, 4 pole</b> <span style="float: right;"><b>16</b></span></p> <hr/>
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### Product selection

2

Connection type	Cable length m	Mushroom head	Contact configuration <sup>1)</sup> N/C = Normally closed contact N/O = Normally open contact	Contact sequence	Contact diagram <sup>2)</sup>	Part no. Article no.	Std. pack	
<b>Controlled stop/emergency switching off buttons</b>								
Non-illuminated Tamper-proof as defined in ISO 13850, EN 418 IP66, IP67, IP69K (at front) IP65 (at rear) Yellow base								
<b>Mushroom-shaped Pull release</b> 38 mm diameter	Cable (black) with M12A plug, 5 pole	0.2	2 N/C ⊕				<b>C22-PV-K02-P10</b> 185184	1 unit
<b>Mushroom-shaped Pull release</b> 38 mm diameter	Cable (black) with unterminated end, 4 pole	1	2 N/C ⊕				<b>C22-PV-K02-P62</b> 185169	1 unit
		3.5					<b>C22-PV-K02-P65</b> 185170	
<b>Mushroom-shaped Turn-to-release function</b> 38 mm diameter	Cable (black) with unterminated end, 4 pole	1	1 N/C ⊕ 1 N/O				<b>C22-PV-K11-P62</b> 185174	1 unit
		3.5					<b>C22-PV-K11-P65</b> 185175	
<b>Mushroom-shaped Turn-to-release function</b> 38 mm diameter	Cable (black) with unterminated end, 4 pole	1	2 N/C ⊕				<b>C22-PVT-K02-P62</b> 185176	1 unit
		3.5					<b>C22-PVT-K02-P65</b> 185177	
<b>Mushroom-shaped Turn-to-release function</b> 38 mm diameter	Cable (black) with unterminated end, 4 pole	1	1 N/C ⊕ 1 N/O				<b>C22-PVT-K11-P62</b> 185181	1 unit
		3.5					<b>C22-PVT-K11-P65</b> 185182	
<b>Palm Turn-to-release function</b> 45 mm diameter	Cable (black) with M12A plug, 5 pole	0.2	2 N/C ⊕				<b>C22-PVT45P-K02-P10</b> 185183	1 unit
<b>Palm Turn-to-release function</b> 45 mm diameter	Cable (black) with unterminated end, 4 pole	1	2 N/C ⊕				<b>C22-PVT45P-K02-P62</b> 185155	1 unit
		3.5					<b>C22-PVT45P-K02-P65</b> 185156	
<b>Palm Turn-to-release function</b> 45 mm diameter	Cable (black) with unterminated end, 4 pole	1	1 N/C ⊕ 1 N/O				<b>C22-PVT45P-K11-P62</b> 185160	1 unit
		3.5					<b>C22-PVT45P-K11-P65</b> 185161	
<b>Palm Turn-to-release function</b> 45 mm diameter With mechanical position indicator <sup>3)</sup>	Cable (black) with unterminated end, 4 pole	1	2 N/C ⊕				<b>C22-PVT45P-MPI-K02-P62</b> 185162	1 unit
		3.5					<b>C22-PVT45P-MPI-K02-P65</b> 185163	
<b>Palm Turn-to-release function</b> 45 mm diameter With mechanical position indicator <sup>3)</sup>	Cable (black) with unterminated end, 4 pole	1	1 N/C ⊕ 1 N/O				<b>C22-PVT45P-MPI-K11-P62</b> 185167	1 unit
		3.5					<b>C22-PVT45P-MPI-K11-P65</b> 185168	

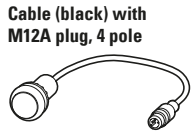
#### Notes

<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

<sup>2)</sup> Contact sequence ■ = Contact closed □ = Contact open

<sup>3)</sup> Green switch position indicator → Button not activated

Cable length	Button plate	Contact configuration <sup>1)</sup>	Contact sequence <sup>2)</sup>	Contact diagram	Part no. Article no.	Part no. Article no.	Std. pack
m		N/O = Normally open contact	N/C = Normally closed contact		Momentary	Maintained	



**Pushbuttons**

Silver bezel  
IP66, IP67, IP69K (at front), IP65 (at rear)  
Flush

0.2		1 N/C ⊕			Zw = 4.5 mm	<b>C22-D-R-K01-P1</b>	<b>C22-DR-R-K01-P1</b>	1 unit	
						185675	185684		
	Without button plate					<b>C22-D-S-K01-P1</b>	<b>C22-DR-S-K01-P1</b>		
	0.2		1 N/O			Zw = 4.5 mm	<b>C22-D-X-K01-P1</b>	<b>C22-DR-X-K01-P1</b>	
							185678	185687	
		Without button plate					<b>C22-D-G-K10-P1</b>	<b>C22-DR-G-K10-P1</b>	
0.2			1 N/O			Zw = 4.5 mm	<b>C22-D-W-K10-P1</b>	<b>C22-DR-W-K10-P1</b>	
							185677	185686	
		Without button plate					<b>C22-D-X-K10-P1</b>	<b>C22-DR-X-K10-P1</b>	
	0.5		1 N/C ⊕			Zw = 4.5 mm	<b>C22-D-R-K01-P3</b>	<b>C22-DR-R-K01-P3</b>	1 unit
							181633	181611	
		Without button plate					<b>C22-D-S-K01-P3</b>	<b>C22-DR-S-K01-P3</b>	
0.5			1 N/O			Zw = 4.5 mm	<b>C22-D-X-K01-P3</b>	<b>C22-DR-X-K01-P3</b>	
							181634	181612	
		Without button plate					<b>C22-D-G-K10-P3</b>	<b>C22-DR-G-K10-P3</b>	
	0.5		1 N/O			Zw = 4.5 mm	<b>C22-D-W-K10-P3</b>	<b>C22-DR-W-K10-P3</b>	
							181635	181613	
		Without button plate					<b>C22-D-X-K10-P3</b>	<b>C22-DR-X-K10-P3</b>	
1			1 N/C ⊕			Zw = 4.5 mm	<b>C22-D-R-K01-P5</b>	<b>C22-DR-R-K01-P5</b>	1 unit
							181043	181081	
		Without button plate					<b>C22-D-S-K01-P5</b>	<b>C22-DR-S-K01-P5</b>	
	1		1 N/O			Zw = 4.5 mm	<b>C22-D-X-K01-P5</b>	<b>C22-DR-X-K01-P5</b>	
							181045	181083	
		Without button plate					<b>C22-D-G-K10-P5</b>	<b>C22-DR-G-K10-P5</b>	
1			1 N/O			Zw = 4.5 mm	<b>C22-D-W-K10-P5</b>	<b>C22-DR-W-K10-P5</b>	
							181047	181085	
		Without button plate					<b>C22-D-X-K10-P5</b>	<b>C22-DR-X-K10-P5</b>	

**Notes**

<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

<sup>2)</sup> Contact sequence: = Contact closed = Contact open

#### C22 – Pushbuttons

2

Cable length m	Button plate	Contact configuration <sup>1)</sup> N/O = Normally open contact	Contact sequence <sup>2)</sup>	Contact diagram	Momentary	Maintained	Std. pack
					Part no. Article no.	Part no. Article no.	

Cable (black) with  
M8 plug, 4 pole



#### Pushbuttons

Silver bezel  
IP66, IP67, IP69K (at front), IP65 (at rear)  
Flush

0.2		1 N/C ⊕			Zw = 4.5 mm	<b>C22-D-R-K01-P30</b> 185693	<b>C22-DR-R-K01-P30</b> 185702	1 unit
						<b>C22-D-S-K01-P30</b> 185694	<b>C22-DR-S-K01-P30</b> 185703	
	Without button plate					<b>C22-D-X-K01-P30</b> 185696	<b>C22-DR-X-K01-P30</b> 185705	
		1 N/O			Zw = 4.5 mm	<b>C22-D-G-K10-P30</b> 185692	<b>C22-DR-G-K10-P30</b> 185701	
						<b>C22-D-W-K10-P30</b> 185695	<b>C22-DR-W-K10-P30</b> 185704	
	Without button plate					<b>C22-D-X-K10-P30</b> 185698	<b>C22-DR-X-K10-P30</b> 185707	
0.5		1 N/C ⊕			Zw = 4.5 mm	<b>C22-D-R-K01-P31</b> 185635	<b>C22-DR-R-K01-P31</b> 185644	1 unit
						<b>C22-D-S-K01-P31</b> 185636	<b>C22-DR-S-K01-P31</b> 185645	
	Without button plate					<b>C22-D-X-K01-P31</b> 185638	<b>C22-DR-X-K01-P31</b> 185647	
		1 N/O			Zw = 4.5 mm	<b>C22-D-G-K10-P31</b> 185634	<b>C22-DR-G-K10-P31</b> 185643	
						<b>C22-D-W-K10-P31</b> 185637	<b>C22-DR-W-K10-P31</b> 185646	
	Without button plate					<b>C22-D-X-K10-P31</b> 185640	<b>C22-DR-X-K10-P31</b> 185649	
1		1 N/C ⊕			Zw = 4.5 mm	<b>C22-D-R-K01-P32</b> 185653	<b>C22-DR-R-K01-P32</b> 185662	1 unit
						<b>C22-D-S-K01-P32</b> 185654	<b>C22-DR-S-K01-P32</b> 185663	
	Without button plate					<b>C22-D-X-K01-P32</b> 185656	<b>C22-DR-X-K01-P32</b> 185665	
		1 N/O			Zw = 4.5 mm	<b>C22-D-G-K10-P32</b> 185652	<b>C22-DR-G-K10-P32</b> 185661	
						<b>C22-D-W-K10-P32</b> 185655	<b>C22-DR-W-K10-P32</b> 185664	
	Without button plate					<b>C22-D-X-K10-P32</b> 185658	<b>C22-DR-X-K10-P32</b> 185667	

#### Notes

<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

<sup>2)</sup> Contact sequence: = Contact closed = Contact open

Cable length	Button plate	Contact configuration <sup>1)</sup>	Contact sequence <sup>2)</sup>	Contact diagram	Part no. Article no.	Part no. Article no.	Std. pack
m		N/O = Normally open contact N/C = Normally closed contact			Momentary	Maintained	

Cable (black) with unterminated end, 4 pole



Pushbuttons									
1	Silver bezel IP66, IP67, IP69K (at front), IP65 (at rear) Flush	1 N/C ⊕			0 2.2 5.5 Zw = 4.5 mm	<b>C22-D-R-K01-P62</b> 185671	<b>C22-DR-R-K01-P62</b> 185608	1 unit	
						<b>C22-D-S-K01-P62</b> 185672	<b>C22-DR-S-K01-P62</b> 185609		
	Without button plate					<b>C22-D-X-K01-P62</b> 185602	<b>C22-DR-X-K01-P62</b> 185611		
	Without button plate	2 N/C ⊕			0 2.2 5.5 Zw = 4.5 mm	<b>C22-D-X-K02-P62</b> 185603	<b>C22-DR-X-K02-P62</b> 185612		
	Without button plate	1 N/O	1 N/C ⊕			0 2.2 5.5 3.15 Zw = 4.5 mm	<b>C22-D-X-K11-P62</b> 185605	<b>C22-DR-X-K11-P62</b> 185614	
	Without button plate	1 N/O				0 3.15 5.5	<b>C22-D-G-K10-P62</b> 185670	<b>C22-DR-G-K10-P62</b> 185607	
	Without button plate					0 3.15 5.5	<b>C22-D-W-K10-P62</b> 185673	<b>C22-DR-W-K10-P62</b> 185610	
	Without button plate	2 N/O				0 3.15 5.5	<b>C22-D-X-K20-P62</b> 185604	<b>C22-DR-X-K10-P62</b> 185613	
	Without button plate	2 N/O				0 3.15 5.5	<b>C22-D-X-K20-P62</b> 185606	<b>C22-DR-X-K20-P62</b> 185615	
	3.5	Silver bezel IP66, IP67, IP69K (at front), IP65 (at rear) Flush	1 N/C ⊕			0 2.2 5.5 Zw = 4.5 mm	<b>C22-D-R-K01-P65</b> 185617	<b>C22-DR-R-K01-P65</b> 185626	1 unit
							<b>C22-D-S-K01-P65</b> 185618	<b>C22-DR-S-K01-P65</b> 185627	
		Without button plate					<b>C22-D-X-K01-P65</b> 185620	<b>C22-DR-X-K01-P65</b> 185629	
Without button plate		2 N/C ⊕			0 2.2 5.5 Zw = 4.5 mm	<b>C22-D-X-K02-P65</b> 185621	<b>C22-DR-X-K02-P65</b> 185630		
Without button plate		1 N/O	1 N/C ⊕			0 2.2 5.5 3.15 Zw = 4.5 mm	<b>C22-D-X-K11-P65</b> 185623	<b>C22-DR-X-K11-P65</b> 185632	
Without button plate		1 N/O				0 3.15 5.5	<b>C22-D-G-K10-P65</b> 185616	<b>C22-DR-G-K10-P65</b> 185625	
Without button plate						0 3.15 5.5	<b>C22-D-W-K10-P65</b> 185619	<b>C22-DR-W-K10-P65</b> 185628	
Without button plate						0 3.15 5.5	<b>C22-D-X-K10-P65</b> 185622	<b>C22-DR-X-K10-P65</b> 185631	
Without button plate		2 N/O				0 3.15 5.5	<b>C22-D-X-K20-P65</b> 185624	<b>C22-DR-X-K20-P65</b> 185633	

Notes

<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1  
<sup>2)</sup> Contact sequence: ■ = Contact closed □ = Contact open









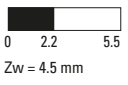

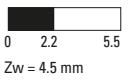

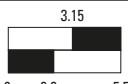




#### C22 – Selector switches

2

Function:	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram <sup>2)</sup>	Cable length of 0.2 m Part no. Article no.	Cable length of 1 m Part no. Article no.	Std. pack
▷ = Momentary ▽ = Maintained	N/O = Normally open contact N/C = Normally closed contact					

#### Selector switches

Silver bezel  
With thumb-grip  
IP66 (at front), IP65 (at rear)

<b>2 positions</b> <b>Cable (black) with M12A plug, 4 pole</b> 	▷ 40°	1 N/O			<b>C22-WK-K10-P1</b> 186098	<b>C22-WK-K10-P5</b> 186114	1 unit	
	▽ 60°				<b>C22-WRK-K10-P1</b> 186103	<b>C22-WRK-K10-P5</b> 186119		
<b>2 positions</b> <b>Cable (black) with M8 plug, 4 pole</b> 	▷ 40°	1 N/O			<b>C22-WK-K10-P30</b> 186130	<b>C22-WK-K10-P32</b> 186146	1 unit	
	▽ 60°				<b>C22-WRK-K10-P30</b> 186135	<b>C22-WRK-K10-P32</b> 186151		
<b>2 positions</b> <b>Cable (black) with unterminated end, 4 pole</b> 	▷ 40°	1 N/C ⊕			<b>C22-WK-K01-P62</b> 186161	<b>C22-WK-K01-P65</b> 186177	1 unit	
	▽ 60°				<b>C22-WRK-K01-P62</b> 186166	<b>C22-WRK-K01-P65</b> 186182		
	▷ 40°	2 N/C ⊕			<b>C22-WK-K02-P62</b> 186158	<b>C22-WK-K02-P65</b> 186174		
	▽ 60°				<b>C22-WRK-K02-P62</b> 186163	<b>C22-WRK-K02-P65</b> 186179		
	▷ 40°	1 N/O	1 N/C ⊕			<b>C22-WK-K11-P62</b> 186159	<b>C22-WK-K11-P65</b> 186175	
	▽ 60°				<b>C22-WRK-K11-P62</b> 186164	<b>C22-WRK-K11-P65</b> 186180		
	▷ 40°	1 N/O				<b>C22-WK-K10-P62</b> 186162	<b>C22-WK-K10-P65</b> 186178	
	▽ 60°				<b>C22-WRK-K10-P62</b> 186167	<b>C22-WRK-K10-P65</b> 186183		
	▷ 40°	2 N/O				<b>C22-WK-K20-P62</b> 186160	<b>C22-WK-K20-P65</b> 186176	
	▽ 60°				<b>C22-WRK-K20-P62</b> 186165	<b>C22-WRK-K20-P65</b> 186181		

#### Notes

<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

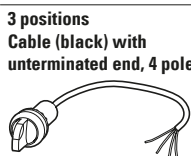
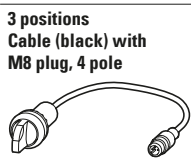
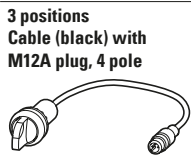
<sup>2)</sup> Contact sequence: ■ = Contact closed □ = Contact open



Function:	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram <sup>2)</sup>	Cable length of 0.2 m Part no. Article no.	Cable length of 1 m Part no. Article no.	Std. pack
▷ = Momentary ▽ = Maintained	N/O = Normally open contact N/C = Normally closed contact					

**Selector switches**

Silver bezel  
With thumb-grip  
IP66 (at front), IP65 (at rear)



<b>3 positions</b> <b>Cable (black) with M12A plug, 4 pole</b>	40° ▷ 40°	2 N/O			<b>C22-WK3-K20-P1</b> 186106	<b>C22-WK3-K20-P5</b> 186122	1 unit
	60° ▽ 60°				<b>C22-WRK3-K20-P1</b> 186109	<b>C22-WRK3-K20-P5</b> 186125	
<b>3 positions</b> <b>Cable (black) with M8 plug, 4 pole</b>	40° ▷ 40°	2 N/O			<b>C22-WK3-K20-P30</b> 186138	<b>C22-WK3-K20-P32</b> 186154	1 unit
	60° ▽ 60°				<b>C22-WRK3-K20-P30</b> 186141	<b>C22-WRK3-K20-P32</b> 186157	
<b>3 positions</b> <b>Cable (black) with unterminated end, 4 pole</b>	40° ▷ 40°	2 N/C ⊕			<b>C22-WK3-K02-P62</b> 186168	<b>C22-WK3-K02-P65</b> 186184	1 unit
	60° ▽ 60°			Zw = 4.5 mm	<b>C22-WRK3-K02-P62</b> 186171	<b>C22-WRK3-K02-P65</b> 186187	
	40° ▷ 40°	1 N/O			<b>C22-WK3-K11-P62</b> 186169	<b>C22-WK3-K11-P65</b> 186185	
	60° ▽ 60°	1 N/C ⊕		Zw = 4.5 mm	<b>C22-WRK3-K11-P62</b> 186172	<b>C22-WRK3-K11-P65</b> 186188	
	40° ▷ 40°	2 N/O			<b>C22-WK3-K20-P62</b> 186170	<b>C22-WK3-K20-P65</b> 186186	
	60° ▽ 60°				<b>C22-WRK3-K20-P62</b> 186173	<b>C22-WRK3-K20-P65</b> 186189	

**Notes**

<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1  
<sup>2)</sup> Contact sequence: ■ = Contact closed □ = Contact open











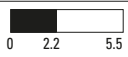

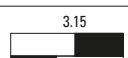




#### C22 – Key-operated buttons

2

Function:	Key withdrawable at position	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram	Cable length of 0.2 m Part no. Article no.	Cable length of 1 m Part no. Article no.	Std. pack
▷	= Momentary	N/O = Normally open contact	N/C = Normally closed contact				
◁	= Maintained						

#### Key-operated buttons

Silver bezel  
MS1 lock mechanism  
Not suitable for master key systems  
With 1 key  
IP66 (at front), IP65 (at rear)

<b>2 positions</b> <b>Cable (black) with M12A plug, 4 pole</b> 	▷ 40°	0	1 N/O			<b>C22-WS-MS1-K10-P1</b> 186194	<b>C22-WS-MS1-K10-P5</b> 186210	1 unit
	◁ 60°	I	0			<b>C22-WRS-MS1-K10-P1</b> 186199	<b>C22-WRS-MS1-K10-P5</b> 186215	
<b>2 positions</b> <b>Cable (black) with M8 plug, 4 pole</b> 	▷ 40°	0	1 N/O			<b>C22-WS-MS1-K10-P30</b> 186226	<b>C22-WS-MS1-K10-P32</b> 186242	1 unit
	◁ 60°	I	0			<b>C22-WRS-MS1-K10-P30</b> 186231	<b>C22-WRS-MS1-K10-P32</b> 186247	
<b>2 positions</b> <b>Cable (black) with unterminated end, 4 pole</b> 	▷ 40°	0	1 N/C ⊕			<b>C22-WS-MS1-K01-P62</b> 186257	<b>C22-WS-MS1-K01-P65</b> 186273	1 unit
	◁ 60°	I	0			<b>C22-WRS-MS1-K01-P62</b> 186262	<b>C22-WRS-MS1-K01-P65</b> 186278	
	▷ 40°	0	2 N/C ⊕			<b>C22-WS-MS1-K02-P62</b> 186254	<b>C22-WS-MS1-K02-P65</b> 186270	
	◁ 60°	I	0			<b>C22-WRS-MS1-K02-P62</b> 186259	<b>C22-WRS-MS1-K02-P65</b> 186275	
	▷ 40°	0	1 N/O 1 N/C ⊕			<b>C22-WS-MS1-K11-P62</b> 186255	<b>C22-WS-MS1-K11-P65</b> 186271	
	◁ 60°	I	0			<b>C22-WRS-MS1-K11-P62</b> 186260	<b>C22-WRS-MS1-K11-P65</b> 186276	
	▷ 40°	0	1 N/O			<b>C22-WS-MS1-K10-P62</b> 186258	<b>C22-WS-MS1-K10-P65</b> 186274	
	◁ 60°	I	0			<b>C22-WRS-MS1-K10-P62</b> 186263	<b>C22-WRS-MS1-K10-P65</b> 186279	
	▷ 40°	0	2 N/O			<b>C22-WS-MS1-K20-P62</b> 186256	<b>C22-WS-MS1-K20-P65</b> 186272	
	◁ 60°	I	0			<b>C22-WRS-MS1-K20-P62</b> 186261	<b>C22-WRS-MS1-K20-P65</b> 186277	

#### Notes









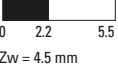




<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

<sup>2)</sup> Contact sequence ■ = Contact closed □ = Contact open

Function:	Key withdrawable at position	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram	Cable length of 0.2 m Part no. Article no.	Cable length of 1 m Part no. Article no.	Std. pack
▷	= Momentary	N/O = Normally open contact	N/C = Normally closed contact				
◁	= Maintained						

**Key-operated buttons**

































































Silver bezel  
MS1 lock mechanism  
Not suitable for master key systems  
With 1 key  
IP66 (at front), IP65 (at rear)

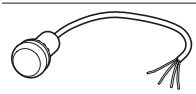
<b>3 positions</b> <b>Cable (black) with M12A plug, 4 pole</b> 	40° ▷◁ 40°	0	2 N/O			<b>C22-WS3-MS1-K20-P1</b> 186202	<b>C22-WS3-MS1-K20-P5</b> 186218	1 unit	
	60° ▷◁ 60°	I 0 II				<b>C22-WRS3-MS1-K20-P1</b> 186205	<b>C22-WRS3-MS1-K20-P5</b> 186221		
<b>3 positions</b> <b>Cable (black) with M8 plug, 4 pole</b> 	40° ▷◁ 40°	0	2 N/O			<b>C22-WS3-MS1-K20-P30</b> 186234	<b>C22-WS3-MS1-K20-P32</b> 186250	1 unit	
	60° ▷◁ 60°	I 0 II				<b>C22-WRS3-MS1-K20-P30</b> 186237	<b>C22-WRS3-MS1-K20-P32</b> 186253		
<b>3 positions</b> <b>Cable (black) with unterminated end, 4 pole</b> 	40° ▷◁ 40°	0	2 N/C <sup>⊕</sup>			<b>C22-WS3-MS1-K02-P62</b> 186264	<b>C22-WS3-MS1-K02-P65</b> 186280	1 unit	
	60° ▷◁ 60°	I 0 II				<b>C22-WRS3-MS1-K02-P62</b> 186267	<b>C22-WRS3-MS1-K02-P65</b> 186283		
	40° ▷◁ 40°	0	1 N/O	1 N/C <sup>⊕</sup>			<b>C22-WS3-MS1-K11-P62</b> 186265	<b>C22-WS3-MS1-K11-P65</b> 186281	
	60° ▷◁ 60°	I 0 II				<b>C22-WRS3-MS1-K11-P62</b> 186268	<b>C22-WRS3-MS1-K11-P65</b> 186284		
	40° ▷◁ 40°	0	2 N/O			<b>C22-WS3-MS1-K20-P62</b> 186266	<b>C22-WS3-MS1-K20-P65</b> 186282		
	60° ▷◁ 60°	I 0 II				<b>C22-WRS3-MS1-K20-P62</b> 186269	<b>C22-WRS3-MS1-K20-P65</b> 186285		

**Notes**  
<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1  
<sup>2)</sup> Contact sequence ■ = Contact closed □ = Contact open

#### C22 – Indicator lights

2

Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
<b>Indicator lights</b>						
Flush LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear)						
	0.2				<b>C22-L-B-24-P1</b> 185119	1 unit
					<b>C22-L-G-24-P1</b> 185120	
					<b>C22-L-R-24-P1</b> 185121	
					<b>C22-L-W-24-P1</b> 185122	
					<b>C22-L-Y-24-P1</b> 185123	
	0.5			<b>C22-L-B-24-P3</b> 181619		
				<b>C22-L-G-24-P3</b> 181620		
				<b>C22-L-R-24-P3</b> 181621		
				<b>C22-L-W-24-P3</b> 181622		
				<b>C22-L-Y-24-P3</b> 181623		
	1			<b>C22-L-B-24-P5</b> 181137		
				<b>C22-L-G-24-P5</b> 181139		
				<b>C22-L-R-24-P5</b> 181141		
				<b>C22-L-W-24-P5</b> 181059		
				<b>C22-L-Y-24-P5</b> 181061		
	0.2				<b>C22-L-B-24-P30</b> 185124	1 unit
					<b>C22-L-G-24-P30</b> 185125	
					<b>C22-L-R-24-P30</b> 185126	
					<b>C22-L-W-24-P30</b> 185127	
					<b>C22-L-Y-24-P30</b> 185128	
	0.5			<b>C22-L-B-24-P31</b> 185129		
				<b>C22-L-G-24-P31</b> 185130		
				<b>C22-L-R-24-P31</b> 185131		
				<b>C22-L-W-24-P31</b> 185132		
				<b>C22-L-Y-24-P31</b> 185133		
	1			<b>C22-L-B-24-P32</b> 185134		
				<b>C22-L-G-24-P32</b> 185135		
				<b>C22-L-R-24-P32</b> 185136		
				<b>C22-L-W-24-P32</b> 185137		
				<b>C22-L-Y-24-P32</b> 185138		



Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
<b>Indicator lights</b>						
Cable (black) with unterminated end, 4 pole	1				<b>C22-L-B-24-P62</b> 185139	1 unit
					<b>C22-L-G-24-P62</b> 185140	
					<b>C22-L-R-24-P62</b> 185141	
					<b>C22-L-W-24-P62</b> 185142	
					<b>C22-L-Y-24-P62</b> 185143	
	3.5			<b>C22-L-B-24-P65</b> 185144		
				<b>C22-L-G-24-P65</b> 185145		
				<b>C22-L-R-24-P65</b> 185146		
				<b>C22-L-W-24-P65</b> 185147		
				<b>C22-L-Y-24-P65</b> 185148		

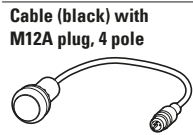
#### C22 – Illuminated pushbutton actuators

2

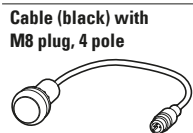
Cable length	Button plate	LED	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram <sup>2)</sup>	Part no. Article no.	Momentary	Maintained	Std. pack
m			N/O = Normally open contact N/C = Normally closed contact						

#### Illuminated pushbutton actuators

Silver bezel  
LED rated operating voltage: 24 V AC/DC  
IP66, IP67, IP69K (at front), IP65 (at rear)  
Flush



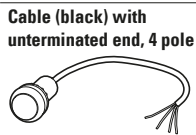
0.2			1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K10-24-P1</b> 185555	<b>C22-DRL-R-K10-24-P1</b> 185559	1 unit
			1 N/O			<b>C22-DL-B-K10-24-P1</b> 185553	<b>C22-DRL-B-K10-24-P1</b> 185557	
						<b>C22-DL-G-K10-24-P1</b> 185554	<b>C22-DRL-G-K10-24-P1</b> 185558	
0.5			1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K01-24-P3</b> 181626	<b>C22-DRL-R-K01-24-P3</b> 181630	
			1 N/O			<b>C22-DL-B-K10-24-P3</b> 181624	<b>C22-DRL-B-K10-24-P3</b> 181628	
						<b>C22-DL-G-K10-24-P3</b> 181625	<b>C22-DRL-G-K10-24-P3</b> 181629	
1			1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K01-24-P5</b> 181303	<b>C22-DRL-R-K01-24-P5</b> 181368	
			1 N/O			<b>C22-DL-B-K10-24-P5</b> 181298	<b>C22-DRL-B-K10-24-P5</b> 181364	
						<b>C22-DL-G-K10-24-P5</b> 181300	<b>C22-DRL-G-K10-24-P5</b> 181366	



0.2			1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K01-24-P30</b> 185563	<b>C22-DRL-R-K01-24-P30</b> 185567	1 unit
			1 N/O			<b>C22-DL-B-K10-24-P30</b> 185561	<b>C22-DRL-B-K10-24-P30</b> 185565	
						<b>C22-DL-G-K10-24-P30</b> 185562	<b>C22-DRL-G-K10-24-P30</b> 185566	
0.5			1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K01-24-P31</b> 185571	<b>C22-DRL-R-K01-24-P31</b> 185575	
			1 N/O			<b>C22-DL-B-K10-24-P31</b> 185569	<b>C22-DRL-B-K10-24-P31</b> 185573	
						<b>C22-DL-G-K10-24-P31</b> 185570	<b>C22-DRL-G-K10-24-P31</b> 185574	
1			1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K01-24-P32</b> 185579	<b>C22-DRL-R-K01-24-P32</b> 185583	
			1 N/O			<b>C22-DL-B-K10-24-P32</b> 185577	<b>C22-DRL-B-K10-24-P32</b> 185581	
						<b>C22-DL-G-K10-24-P32</b> 185578	<b>C22-DRL-G-K10-24-P32</b> 185582	

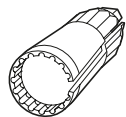
Cable length	Button plate	LED	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram <sup>2)</sup>	Momentary Part no. Article no.	Maintained Part no. Article no.	Std. pack
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**Illuminated pushbutton actuators**



1	●	●	1 N/O	1 N/C		 Zw = 4.5 mm	<b>C22-DL-R-K10-24-P62</b>	<b>C22-DRL-R-K10-24-P62</b>	1 unit
	185587	185591							
	●	●					<b>C22-DL-B-K10-24-P62</b>	<b>C22-DRL-B-K10-24-P62</b>	
	185585	185589							
3.5	●	●	1 N/O	1 N/C		 Zw = 4.5 mm	<b>C22-DL-G-K10-24-P62</b>	<b>C22-DRL-G-K10-24-P62</b>	
	185586	185590							
	○	○					<b>C22-DL-W-K10-24-P62</b>	<b>C22-DRL-W-K10-24-P62</b>	
	185588	185592							
	●	●					<b>C22-DL-R-K10-24-P65</b>	<b>C22-DRL-R-K10-24-P65</b>	
	185595	185599							
●	●	1 N/O		 Zw = 4.5 mm	<b>C22-DL-B-K10-24-P65</b>	<b>C22-DRL-B-K10-24-P65</b>			
185593	185597								
●	●	<b>C22-DL-G-K10-24-P65</b>			<b>C22-DRL-G-K10-24-P65</b>				
185594	185598								
○	○		<b>C22-DL-W-K10-24-P65</b>	<b>C22-DRL-W-K10-24-P65</b>					
185596	185600								

**Notes** <sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1  
<sup>2)</sup> Contact sequence: ■ = Contact closed □ = Contact open



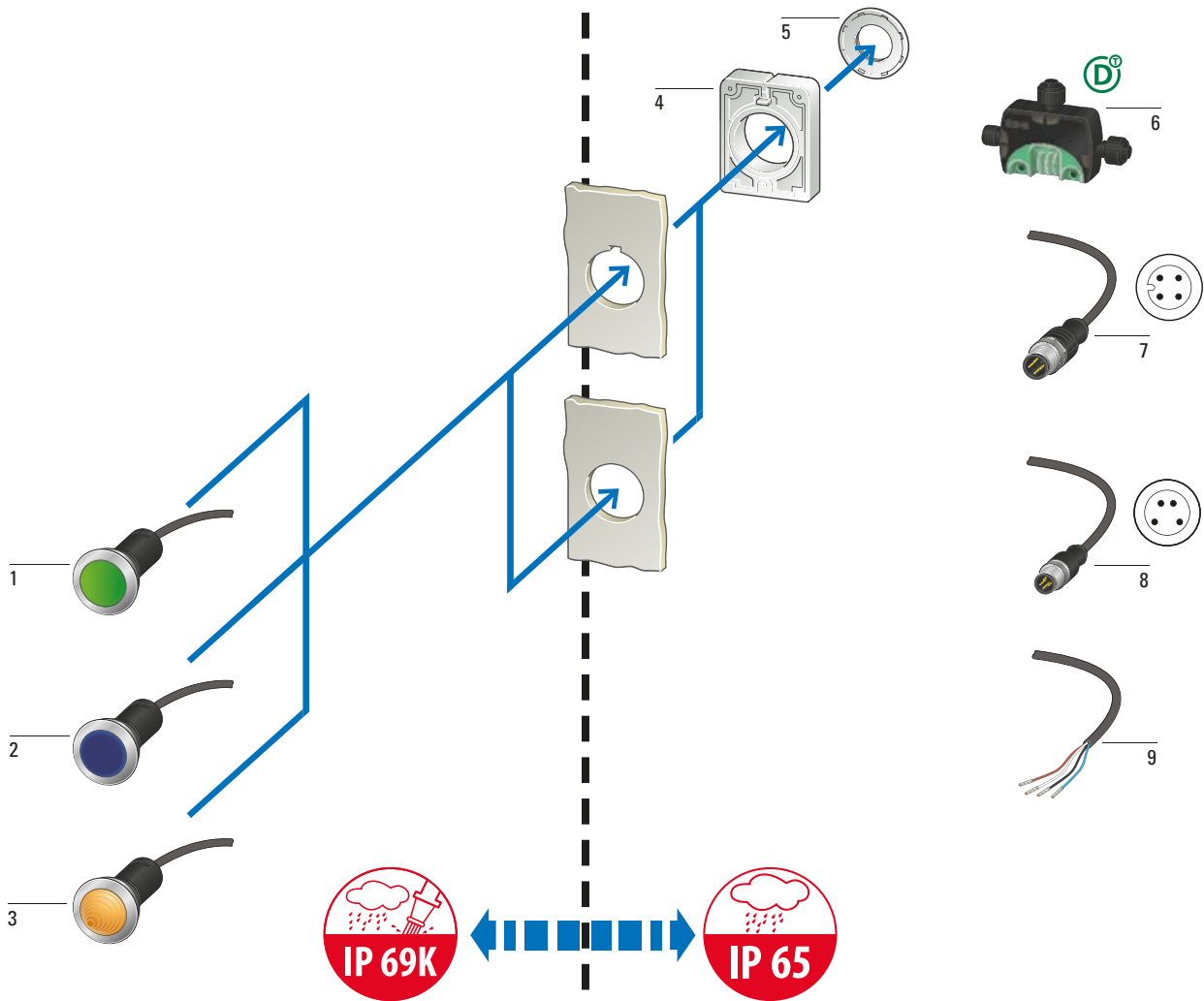
**Mounting ring tool**

For threaded ring; can be used with cordless screwdriver.

Part no.	Article no.	Std. pack
<b>C22-MS</b>	179955	1 unit

### System overview

2



<b>C30 pushbuttons</b>	<b>1</b>
Momentary and maintained	
Flush	
Colors: white, green, red, black	
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
→ Page 111	
<b>C30 illuminated pushbutton actuators</b>	<b>2</b>
Momentary and maintained	
Flush	
Colors: white, green, red, blue	
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
24 V AC/DC	
→ Page 114	

<b>C30 indicator lights</b>	<b>3</b>
Flush	
Colors: white, green, red, blue, yellow	
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)	
24 V AC/DC	
→ Page 113	
<b>RMQ-AFX anti-rotation tab</b>	<b>4</b>
Included with C30 compact devices	
<b>Threaded rings</b>	<b>5</b>
→ Page 70	

<b>SmartWire-DT I/O module</b>	<b>6</b>
For connecting digital input/output signals to SmartWire-DT	
IP67	
<b>Cable with M12A plug, 4 pole</b>	<b>7</b>
<b>Cable with M8 plug, 4 pole</b>	<b>8</b>
<b>Cable end open, 4 pole</b>	<b>9</b>



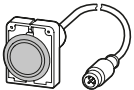
Product selection

Cable length	Button plate	Contact configuration <sup>1)</sup>	Contact sequence <sup>2)</sup>	Contact diagram	Momentary Part no. Article no.	Maintained Part no. Article no.	Std. pack
m		N/O = Normally open contact	N/C = Normally closed contact				

Pushbuttons

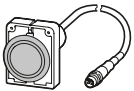
30 mm Flat Front  
Metal bezel  
IP66, IP67, IP69K (at front), IP65 (at rear)  
Flush

Cable (black) with  
M12A plug, 4 pole



1		1 N/C ⊕			Zw = 4.5 mm	<b>C30C-FD-R-K01-P5</b>	<b>C30C-FDR-R-K01-P5</b>	1 unit
						185987	185996	
	Without button plate					<b>C30C-FD-S-K01-P5</b>	<b>C30C-FDR-S-K01-P5</b>	
		1 N/O			Zw = 4.5 mm	<b>C30C-FD-X-K01-P5</b>	<b>C30C-FDR-X-K01-P5</b>	
	Without button plate					185989	185998	
						<b>C30C-FD-G-K10-P5</b>	<b>C30C-FDR-G-K10-P5</b>	
	Without button plate	<b>C30C-FD-W-K10-P5</b>	<b>C30C-FDR-W-K10-P5</b>					
	Without button plate	<b>C30C-FD-X-K10-P5</b>	<b>C30C-FDR-X-K10-P5</b>					

Cable (black) with  
M8 plug, 4 pole



1		1 N/C ⊕			Zw = 4.5 mm	<b>C30C-FD-R-K01-P32</b>	<b>C30C-FDR-R-K01-P32</b>	1 unit
						186018	186027	
	Without button plate					<b>C30C-FD-S-K01-P32</b>	<b>C30C-FDR-S-K01-P32</b>	
		1 N/O			Zw = 4.5 mm	<b>C30C-FD-X-K01-P32</b>	<b>C30C-FDR-X-K01-P32</b>	
	Without button plate					186016	186025	
						<b>C30C-FD-G-K10-P32</b>	<b>C30C-FDR-G-K10-P32</b>	
	Without button plate	<b>C30C-FD-W-K10-P32</b>	<b>C30C-FDR-W-K10-P32</b>					
	Without button plate	<b>C30C-FD-X-K10-P32</b>	<b>C30C-FDR-X-K10-P32</b>					

Notes

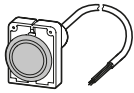
<sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

<sup>2)</sup> Contact sequence: = Contact closed = Contact open

Cable length m	Button plate	Contact configuration <sup>1)</sup>		Contact sequence <sup>2)</sup>	Contact diagram	Momentary	Maintained	Std. pack
		N/O = Normally open contact	N/C = Normally closed contact			Part no. Article no.	Part no. Article no.	

#### Pushbuttons

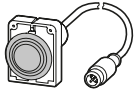

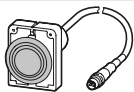



Cable (black) with unterminated end, 4 pole

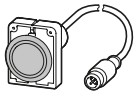



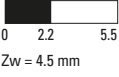








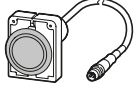



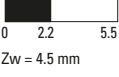








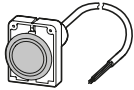



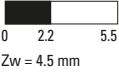



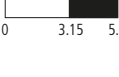







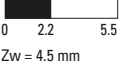










1		1 N/O	1 N/C		 Zw = 4.5 mm	<b>C30C-FD-R-K01-P62</b> 186049	<b>C30C-FDR-R-K01-P62</b> 186058	1 unit
						<b>C30C-FD-S-K01-P62</b> 186047	<b>C30C-FDR-S-K01-P62</b> 186056	
	Without button plate					<b>C30C-FD-X-K01-P62</b> 186051	<b>C30C-FDR-X-K01-P62</b> 186060	
	Without button plate					<b>C30C-FD-X-K02-P62</b> 186055	<b>C30C-FDR-X-K02-P62</b> 186064	
1		1 N/O	1 N/C		 Zw = 4.5 mm	<b>C30C-FD-X-K11-P62</b> 186053	<b>C30C-FDR-X-K11-P62</b> 186062	
						<b>C30C-FD-G-K10-P62</b> 186050	<b>C30C-FDR-G-K10-P62</b> 186059	
	Without button plate					<b>C30C-FD-W-K10-P62</b> 186048	<b>C30C-FDR-W-K10-P62</b> 186057	
	Without button plate					<b>C30C-FD-X-K10-P62</b> 186052	<b>C30C-FDR-X-K10-P62</b> 186061	
1		2 N/O	1 N/C		 Zw = 4.5 mm	<b>C30C-FD-X-K20-P62</b> 186054	<b>C30C-FDR-X-K20-P62</b> 186063	
						<b>C30C-FD-R-K01-P65</b> 185960	<b>C30C-FDR-R-K01-P65</b> 185969	
						<b>C30C-FD-S-K01-P65</b> 185958	<b>C30C-FDR-S-K01-P65</b> 185967	
	Without button plate					<b>C30C-FD-X-K01-P65</b> 185962	<b>C30C-FDR-X-K01-P65</b> 185971	
3.5		2 N/C	1 N/C		 Zw = 4.5 mm	<b>C30C-FD-X-K02-P65</b> 185966	<b>C30C-FDR-X-K02-P65</b> 185975	
						<b>C30C-FD-X-K11-P65</b> 185964	<b>C30C-FDR-X-K11-P65</b> 185973	
						<b>C30C-FD-G-K10-P65</b> 185961	<b>C30C-FDR-G-K10-P65</b> 185970	
	Without button plate					<b>C30C-FD-W-K10-P65</b> 185959	<b>C30C-FDR-W-K10-P65</b> 185968	
3.5		2 N/O	1 N/C		 Zw = 4.5 mm	<b>C30C-FD-X-K10-P65</b> 185963	<b>C30C-FDR-X-K10-P65</b> 185972	
						<b>C30C-FD-X-K20-P65</b> 185965	<b>C30C-FDR-X-K20-P65</b> 185974	
						<b>C30C-FD-X-K10-P65</b> 185963	<b>C30C-FDR-X-K10-P65</b> 185972	
	Without button plate					<b>C30C-FD-X-K20-P65</b> 185965	<b>C30C-FDR-X-K20-P65</b> 185974	

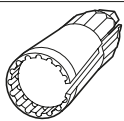
#### Notes

- <sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1  
<sup>2)</sup> Contact sequence: ■ = Contact closed □ = Contact open

Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
<b>Indicator lights</b>						
30 mm Flat Front Metal bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear)						
	1	Blue	Blue		<b>C30C-FL-B-24-P5</b> 186013	1 unit
		Green	Green		<b>C30C-FL-G-24-P5</b> 186012	
		Red	Red		<b>C30C-FL-R-24-P5</b> 186011	
		White	White		<b>C30C-FL-W-24-P5</b> 186015	
		Yellow	White		<b>C30C-FL-Y-24-P5</b> 186014	
	1	Blue	Blue		<b>C30C-FL-B-24-P32</b> 186044	1 unit
		Green	Green		<b>C30C-FL-G-24-P32</b> 186043	
		Red	Red		<b>C30C-FL-R-24-P32</b> 186042	
		White	White		<b>C30C-FL-W-24-P32</b> 186046	
		Yellow	White		<b>C30C-FL-Y-24-P32</b> 186045	
	1	Blue	Blue		<b>C30C-FL-B-24-P62</b> 185955	1 unit
		Green	Green		<b>C30C-FL-G-24-P62</b> 185954	
		Red	Red		<b>C30C-FL-R-24-P62</b> 185953	
		White	White		<b>C30C-FL-W-24-P62</b> 185957	
		Yellow	White		<b>C30C-FL-Y-24-P62</b> 185956	
	3.5	Blue	Blue	<b>C30C-FL-B-24-P65</b> 186070		
		Green	Green	<b>C30C-FL-G-24-P65</b> 186069		
		Red	Red	<b>C30C-FL-R-24-P65</b> 185984		
		White	White	<b>C30C-FL-W-24-P65</b> 186072		
		Yellow	White	<b>C30C-FL-Y-24-P65</b> 186071		

Cable length	Button plate	LED	Contact configuration <sup>1)</sup>	Contact sequence	Contact diagram <sup>2)</sup>	Part no. Article no.	Momentary	Maintained	Std. pack
<b>Illuminated pushbutton actuators</b>									
30 mm Flat Front Metal bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear) Flush									
Cable (black) with M12A plug, 4 pole 	1	 	1 N/C ⊕			<b>C30C-FDL-R-K01-24-P5</b> 186004		<b>C30C-FDRL-R-K01-24-P5</b> 186008	1 unit
		 	1 N/O			<b>C30C-FDL-B-K10-24-P5</b> 186006		<b>C30C-FDRL-B-K10-24-P5</b> 186010	
		 				<b>C30C-FDL-G-K10-24-P5</b> 186005		<b>C30C-FDRL-G-K10-24-P5</b> 186009	
		 				<b>C30C-FDL-W-K10-24-P5</b> 186003		<b>C30C-FDRL-W-K10-24-P5</b> 186007	
Cable (black) with M8 plug, 4 pole 	1	 	1 N/C ⊕			<b>C30C-FDL-R-K01-24-P32</b> 186035		<b>C30C-FDRL-R-K01-24-P32</b> 186039	1 unit
		 	1 N/O			<b>C30C-FDL-B-K10-24-P32</b> 186037		<b>C30C-FDRL-B-K10-24-P32</b> 186041	
		 				<b>C30C-FDL-G-K10-24-P32</b> 186036		<b>C30C-FDRL-G-K10-24-P32</b> 186040	
		 				<b>C30C-FDL-W-K10-24-P32</b> 186034		<b>C30C-FDRL-W-K10-24-P32</b> 186038	
Cable (black) with unterminated end, 4 pole 	1	 	1 N/C ⊕			<b>C30C-FDL-R-K01-24-P62</b> 186066		<b>C30C-FDRL-R-K01-24-P62</b> 185950	1 unit
		 	1 N/O			<b>C30C-FDL-B-K10-24-P62</b> 186068		<b>C30C-FDRL-B-K10-24-P62</b> 185952	
		 				<b>C30C-FDL-G-K10-24-P62</b> 186067		<b>C30C-FDRL-G-K10-24-P62</b> 185951	
		 				<b>C30C-FDL-W-K10-24-P62</b> 186065		<b>C30C-FDRL-W-K10-24-P62</b> 185949	
	3.5	 	1 N/C ⊕			<b>C30C-FDL-R-K01-24-P65</b> 185977		<b>C30C-FDRL-R-K01-24-P65</b> 185981	
		 	1 N/O			<b>C30C-FDL-B-K10-24-P65</b> 185979		<b>C30C-FDRL-B-K10-24-P65</b> 185983	
	 				<b>C30C-FDL-G-K10-24-P65</b> 185978		<b>C30C-FDRL-G-K10-24-P65</b> 185982		
	 				<b>C30C-FDL-W-K10-24-P65</b> 185976		<b>C30C-FDRL-W-K10-24-P65</b> 185980		

**Notes** <sup>1)</sup> ⊕ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1  
<sup>2)</sup> Contact sequence: ■ = Contact closed □ = Contact open



#### Mounting ring tool

For threaded ring; can be used with cordless screwdriver.

Part no. Article no.	Std. pack
<b>C22-MS</b> 179955	1 unit

Technical data

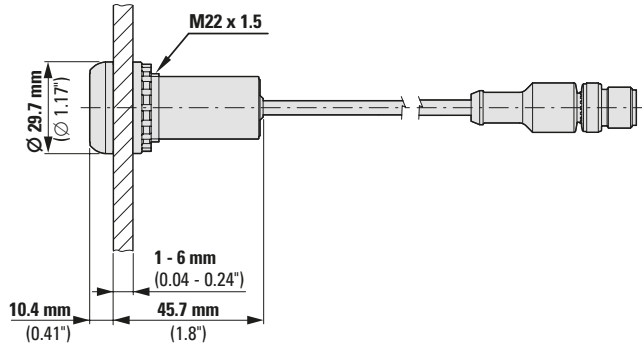
			Controlled stop/ emergency switching off buttons	(Illuminated) pushbuttons Momentary/ maintained	Selector switches	Key-operated buttons	Indicator lights
<b>General</b>							
Standards			IEC/EN 60947-5-5 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	0.05	5/1	1	0.1	–
Operating frequency	Operations/h		300	3600	2000	100	–
Operating force		N	50	5	–	–	–
Operating torque		Nm	–	–	0.3	0.5	–
Plug tightening torque		Nm	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6
Threaded ring tightening torque		Nm	2	2	2	2	2
Climatic proofing							
Damp heat, constant			As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78
Damp heat, cyclic			As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30
Degree of protection			IP66, IP67, IP69K (at front) IP65 (at rear)	IP66, IP67, IP69K (at front) IP65 (at rear)	IP66 (at front) IP65 (at rear)	IP66 (at front) IP65 (at rear)	IP66, IP67, IP69K (at front) IP65 (at rear)
Ambient air temperature							
Open			°C -25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Storage			°C -30 - +80	-30 - +80	-30 - +80	-30 - +80	-30 - +80
Mounting position			Any	Any	Any	Any	Any
Mechanical shock resistance for a shock duration of 11 ms			g > 30	> 30	> 30	> 30	> 30
<b>Contacts</b>							
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800
Rated insulation voltage	U <sub>i</sub>	V	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30
Overvoltage category/ degree of pollution			III/3	III/3	III/3	III/3	III/3
Control circuit reliability at 17 V DC/7 mA			HF				
N/O (statistically determined)			1 failure per 17 x 10 <sup>6</sup> operations	1 failure per 17 x 10 <sup>6</sup> operations	1 failure per 17 x 10 <sup>6</sup> operations	1 failure per 17 x 10 <sup>6</sup> operations	–
N/C (statistically determined)			1 failure per 0.9 x 10 <sup>6</sup> operations	1 failure per 0.9 x 10 <sup>6</sup> operations	1 failure per 0.9 x 10 <sup>6</sup> operations	1 failure per 0.9 x 10 <sup>6</sup> operations	–
Fuse	gG/gL	A	4	4	4	4	4
Conditional short-circuit current	I <sub>q</sub>	kA	1	1	1	1	1
<b>Switching capacity</b>							
Rated operational current			I <sub>e</sub> A				
AC-15: 24 V			I <sub>e</sub> A 4	4	4	4	–
DC-13: 24 V			I <sub>e</sub> A 3	3	3	3	–
Cable characteristics							
Versions			M12A/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated
Material			PUR	PUR	PUR	PUR	PUR
Diameter			∅ mm 4.7	4.7	4.7	4.7	4.7
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1							
Positive opening sequence			mm 4.65	4.65	4.65	4.65	–
Maximum travel			mm 5.11	5.7	5.7	5.7	–
Minimum force for positive opening			N K01 = 15/K11 = 20/K02 = 34	K01 = 15/K11 = 20/K02 = 30	K01 = 15/K11 = 20/K02 = 35	K01 = 15/K11 = 20/K02 = 36	–

#### Dimensions

2

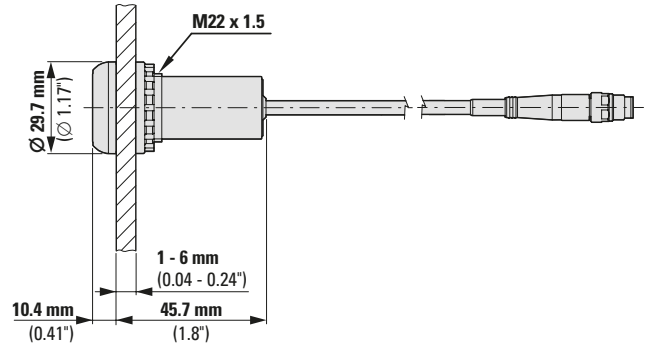
##### Pushbuttons, M12A

C22-D...-P1/-P3/-P5



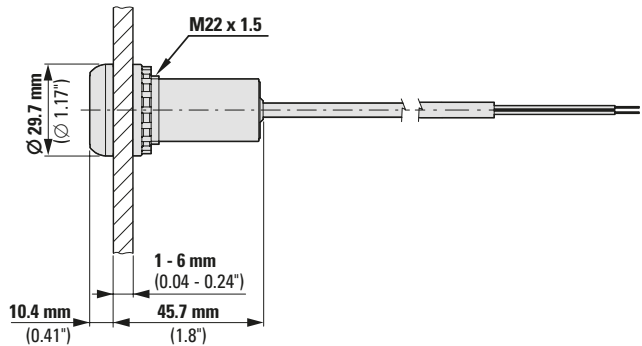
##### Pushbuttons, M8

C22-D...-P30/-P31/-P32



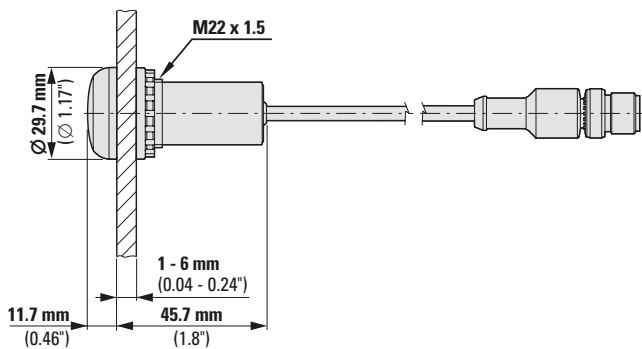
##### Pushbuttons, unterminated cable end

C22-D...-P/-P62/-P65



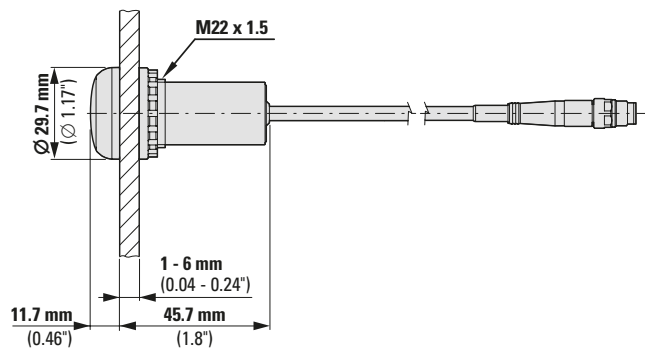
##### Indicator lights, M12A

C22-L...-P1/-P3/-P5



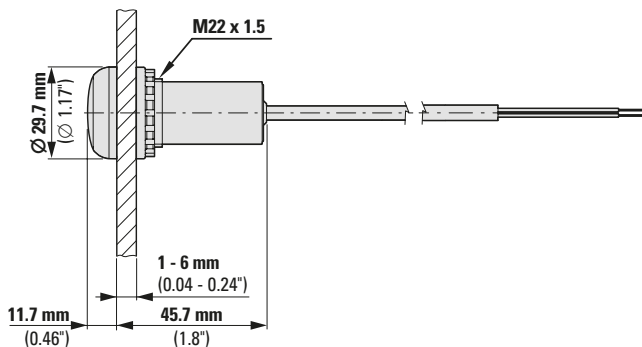
##### Indicator lights, M8

C22-L...-P30/-P31/-P32



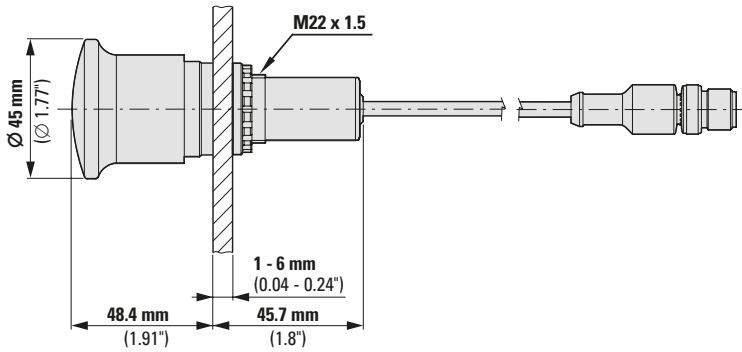
##### Indicator lights, unterminated cable end

C22-L...-P62/-P65



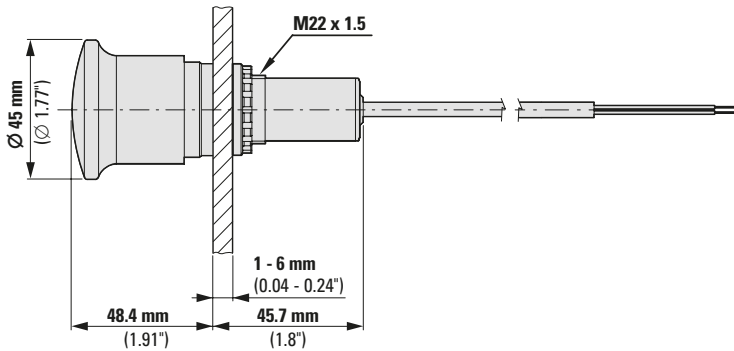
**Emergency switching off, M12A**

C22-PVT...-P10



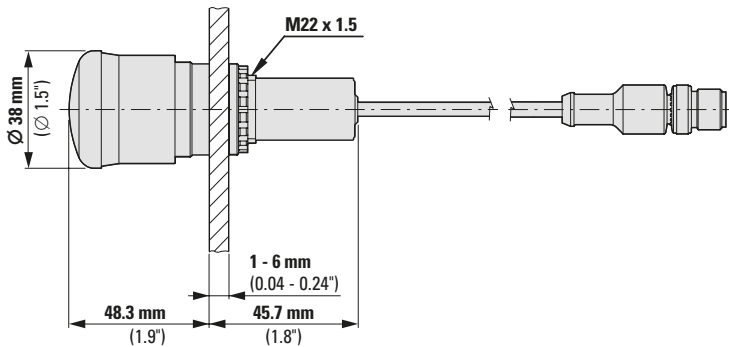
**Emergency switching off, unterminated cable end**

C22-PVT...-P62/-P65



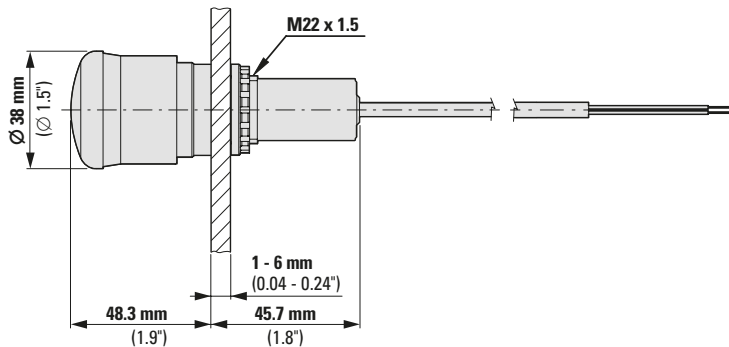
**Emergency switching off, M12A**

C22-PV...-P10



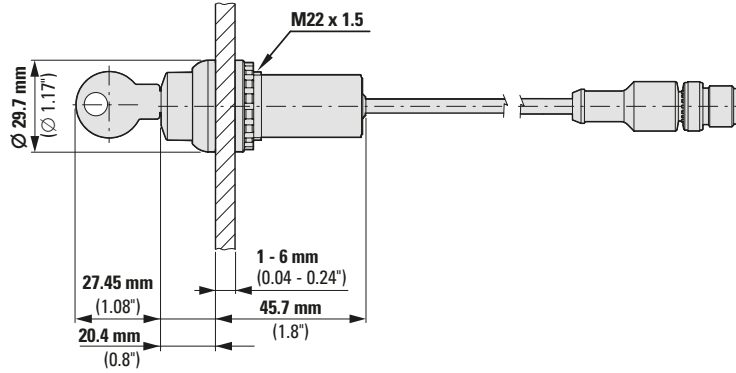
**Emergency switching off, unterminated cable end**

C22-PV...-P62/-P65



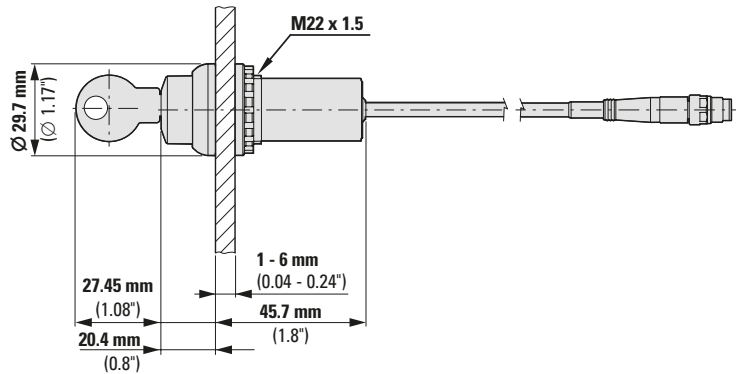
**Key-operated buttons, M12A**

C22-W(R)S(3)-MS1-...-P1/-P5



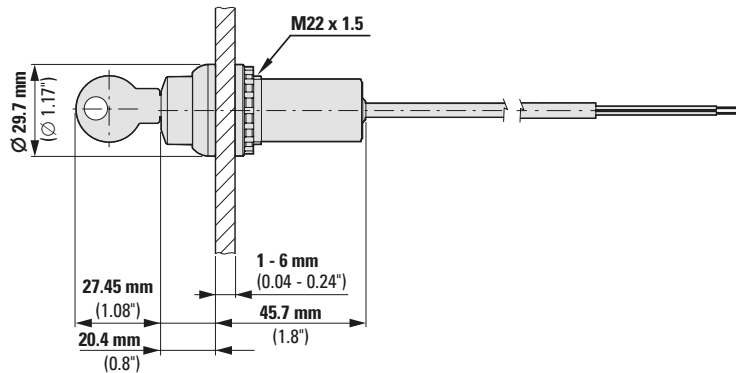
**Key-operated buttons, M8**

C22-W(R)S(3)-MS1-...-P30/-P32



**Key-operated buttons, unterminated cable end**

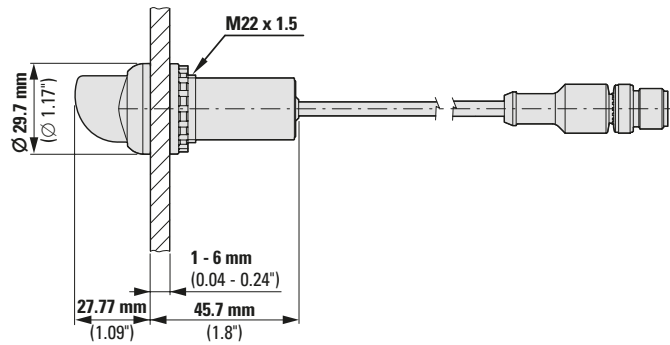
C22-W(R)S(3)-MS1-...-P62/-P65





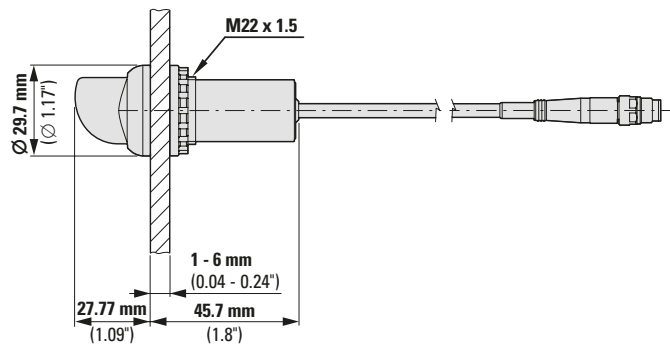
**Selector switches, M12A**

C22-W(R)K(3)-...-P1/-P5



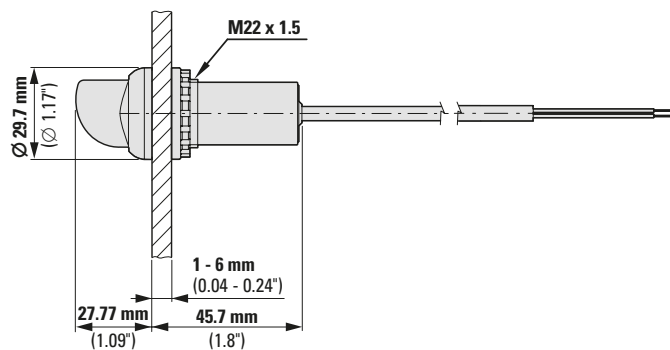
**Selector switches, M8**

C22-W(R)K(3)-...-P30/-P32



**Selector switches, unterminated cable end**

C22-W(R)K(3)-...-P62/-P65



# 2.6

## RMQ compact solution

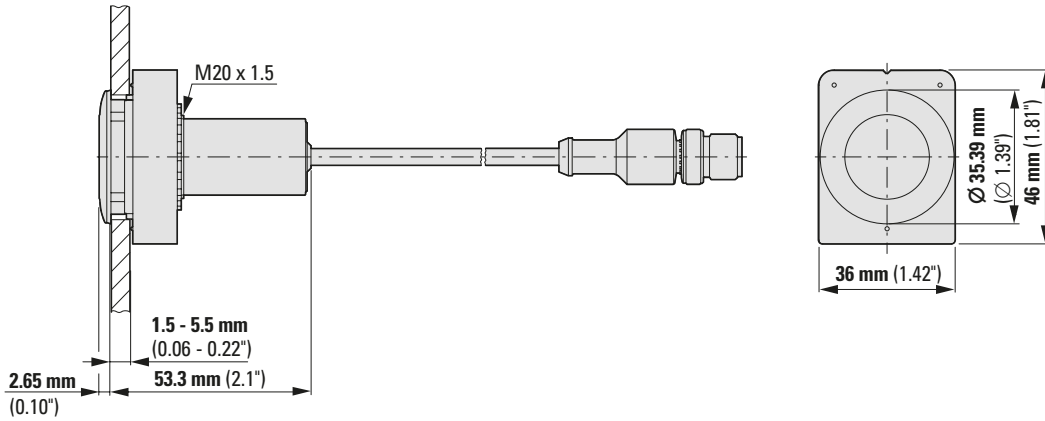
C30 – Dimensions

Moeller series

2

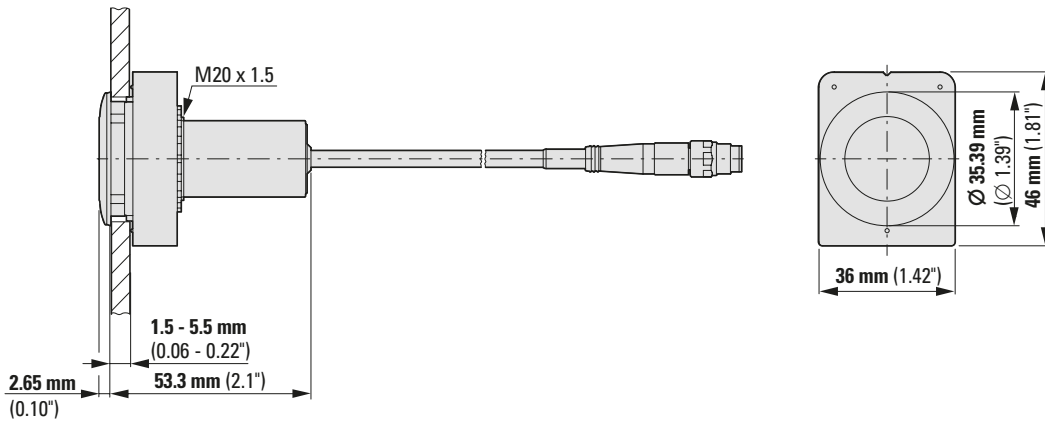
### Pushbuttons, M12A

C30C-FD(R)(L)-...-P5



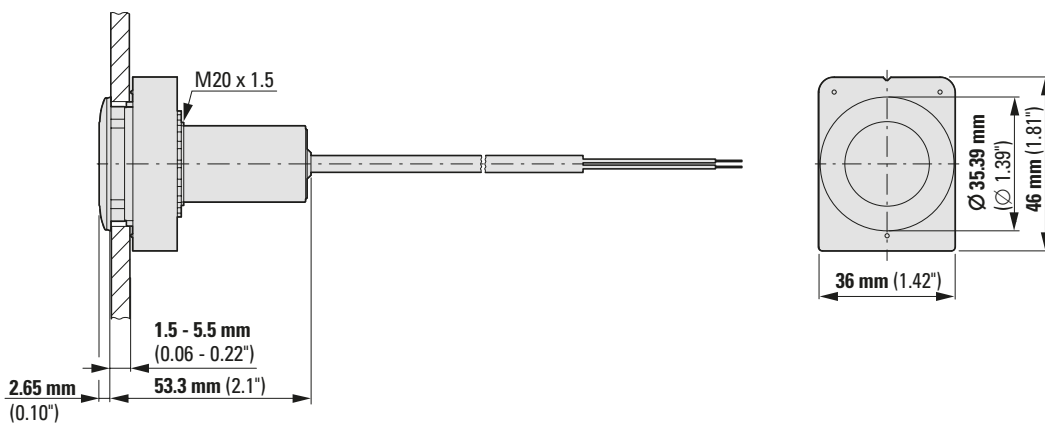
### Pushbuttons, M8

C30C-FD(R)(L)-...-P32



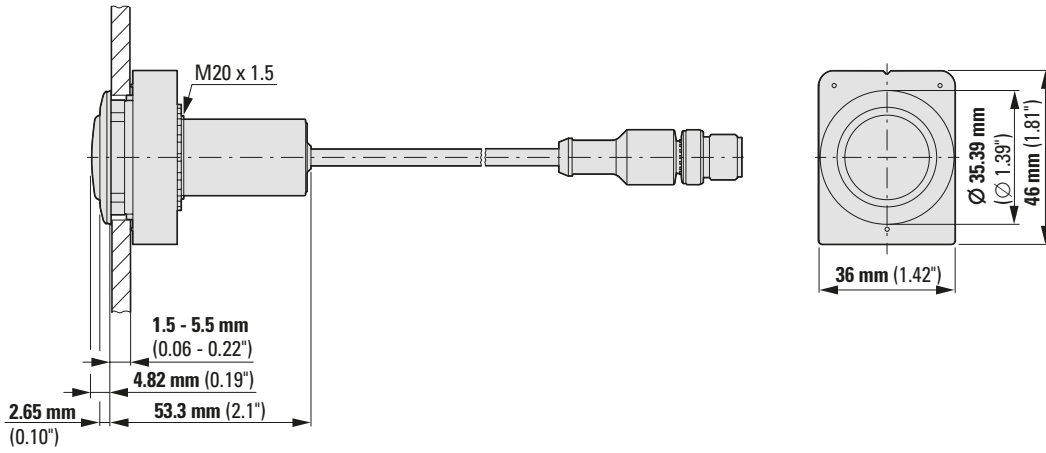
### Pushbuttons, unterminated cable end

C30C-FD(R)(L)-...-P62/-65



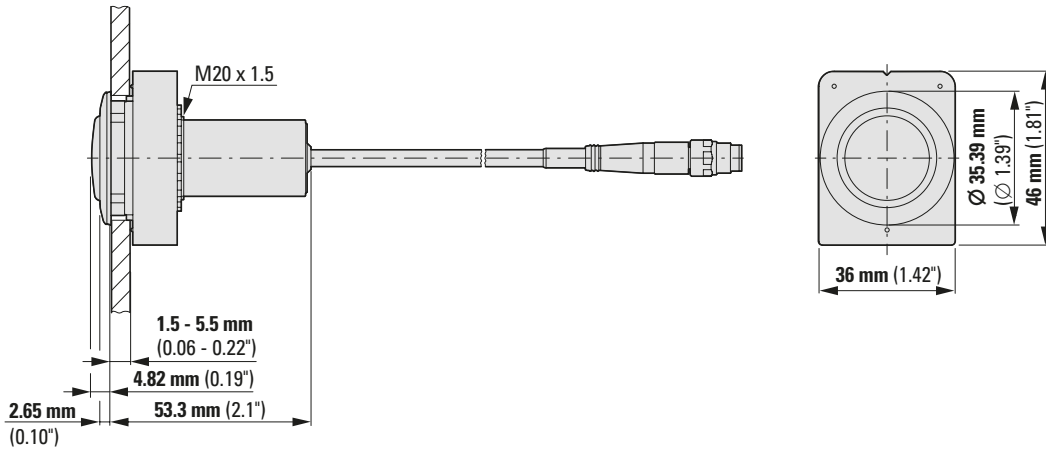
**Indicator lights, M12A**

C30C-FL-...-P5



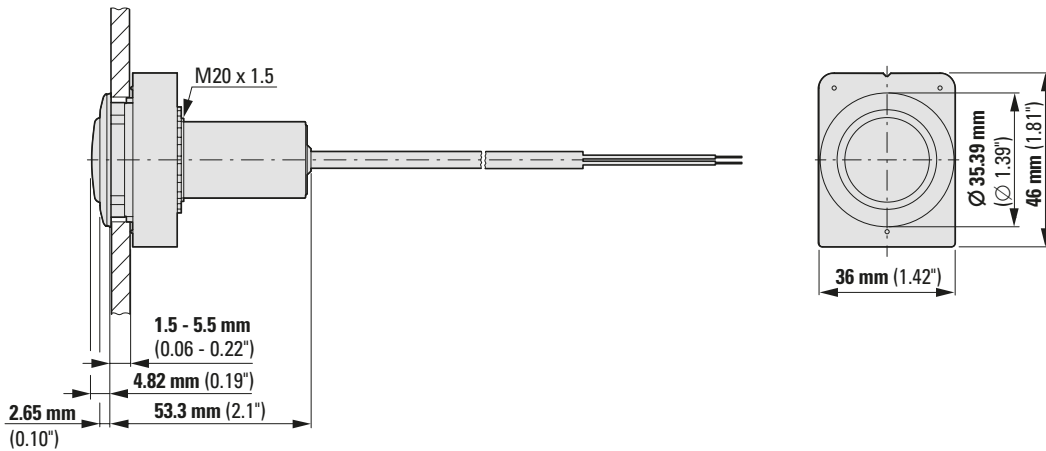
**Indicator lights, M8**

C30C-FL-...-P32

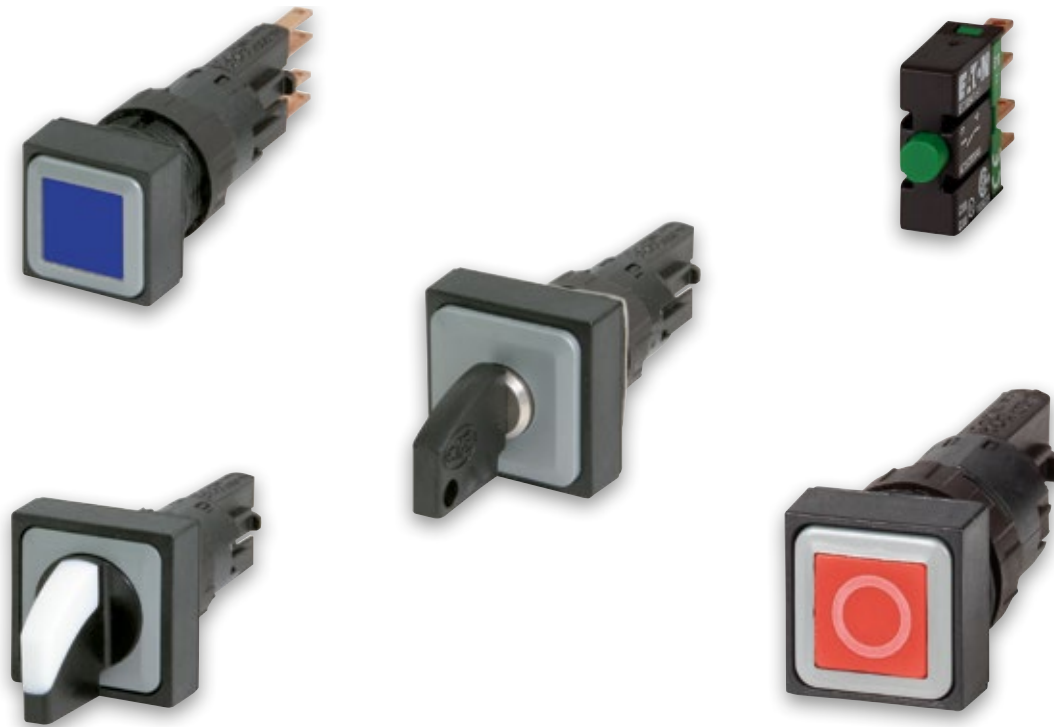


**Indicator lights, unterminated cable end**

C30C-FL-...-24-P62/-P65



# Build it in.



## The RMQ16 Series Squeezes Signaling and Control into a Tiny Space



[www.eaton.eu/rmq16](http://www.eaton.eu/rmq16)

Square RMQ16 pilot devices with sizes of 18 mm and 25 mm are the perfect solution for control interfaces where space is at a premium. The various front elements can be installed with a perfect fit in any of their possible four directions and, thanks to their IP65 degree of protection in the front, are the perfect choice for safe use in harsh conditions. The series is not only characterized by a wide range of indicator lights, pushbuttons, selector switches, and key-operated switches, but its label editor function within the Pushbutton-Configurator also makes it possible to get customized laser inscriptions. The LED lamps and the contact elements in the series are connected using 2.8 mm x 0.8 mm female push-on connectors.

RMQ16 emergency stop buttons are tamper-proof in compliance with ISO 13850 / EN 418 and have a pull-to-reset mechanism. They can also be used as emergency switching off buttons.

RMQ16



**3.0 RMQ16 Pilot devices**

**3.1 System overview**

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**3.2 Product selection**

Pushbuttons ..... 126  
 Illuminated pushbutton actuators ..... 127  
 Changeover switches ..... 128  
 Illuminated selector switch actuators ..... 129  
 Key-operated actuators ..... 130  
 Indicator lights ..... 131  
 Emergency-Stop pushbuttons, Emergency-Stop labels ..... 132  
 Accessories ..... 133

**3.3 Technical data**

Technical data ..... 140

**3.4 Dimensions**

Dimensions ..... 142

3

**Product features**

- Front dimension and minimum grid dimensions 18 x 18 mm or 25 x 25 mm
- Mounting hole diameter 16.2 mm to EN 50007
- Degree of protection IP65
- For switching differing potentials
- Suitable for use with electronic devices to IEC/EN 61131-2
- Technical data according to IEC/EN 60947-5-1
- Approved throughout the world

# 3.1

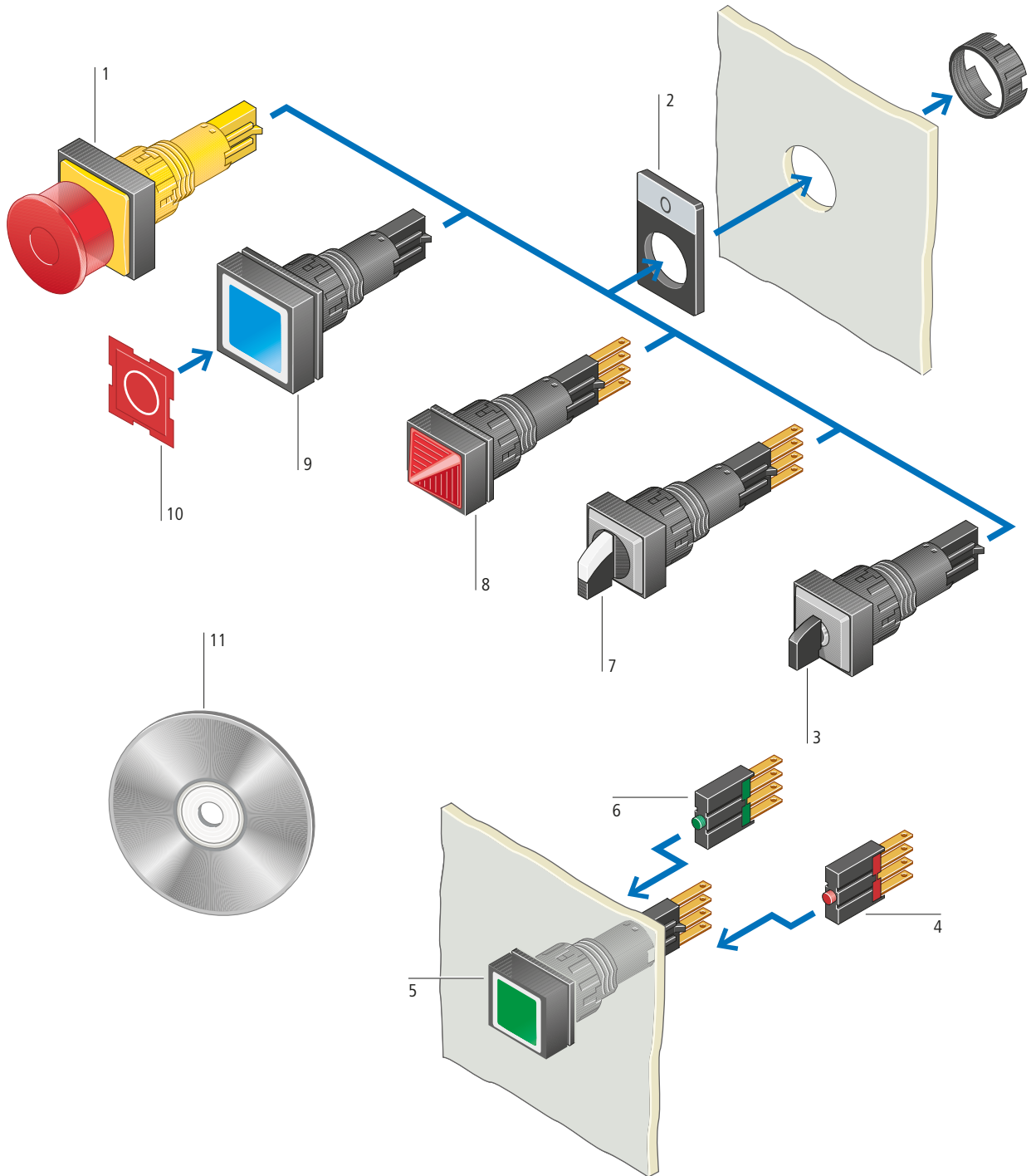
## RMQ16 Pilot devices

System overview

Moeller series

### System overview

3



<p><b>Emergency-stop pushbuttons</b> 1</p> <p>Can also be used as emergency switching off devices</p> <p>Tamper-proof according to ISO 13850/EN 418</p> <p>Illuminated and non-illuminated</p> <p>Additional labels, inscribed or blank</p> <p>European Machinery Safety Directive 2006/42/EC</p> <p>→ Page 132</p>	<p><b>Illuminated pushbutton actuators</b> 5</p> <p>Momentary and maintained</p> <p>Replaceable insert labels</p> <p>Colors: white, green, red, yellow, blue custom laser inscription</p> <p>→ Page 127</p>	<p><b>Pushbuttons</b> 9</p> <p>Momentary and maintained</p> <p>Replaceable button plates</p> <p>Colors: white, green, red, yellow, blue, black</p> <p>→ Page 126</p>
<p><b>Label mounts</b> 2</p> <p>For insert labels</p> <p>Color: light grey, black, yellow</p> <p>Insert labels, inscribed or blank</p> <p>→ Page 137</p>	<p><b>Make contact element (green)</b> 6</p> <p>With blade terminal</p> <p>Universal contacts suitable for use with electronic devices</p> <p>→ Page 126</p>	<p><b>Button plates/insert labels</b> 10</p> <p>Wear-resistant button plates for pushbutton actuators</p> <p>Transparent insert plates for illuminated pushbuttons and indicator lights</p> <p>Inscribed or blank</p> <p>With standard text and symbols or with custom laser inscription</p> <p>→ Page 133</p>
<p><b>Key-operated actuator</b> 3</p> <p>2 and 3 positions</p> <p>Switching angle 45°</p> <p>Momentary and maintained</p> <p>Various lock mechanisms</p> <p>→ Page 130</p>	<p><b>Changeover switches</b> 7</p> <p>2 and 3 positions</p> <p>Switching angle 45° momentary and maintained</p> <p>Illuminated selector switch actuators with built-in lamp socket</p> <p>Colors: white, green, red</p> <p>→ Page 128</p>	<p><b>Labelling with convenience</b> 11</p> <p>All button plates, indicator lights and additional button plates from the RMQ range can be laser inscribed with any text and symbol as required.</p> <p>Download: <a href="http://www.eaton.eu/config/rmq">www.eaton.eu/config/rmq</a></p> <p>Key word: „Pushbutton-Configurator → Labeleditor Function“</p>
<p><b>Break contact element (red)</b> 4</p> <p>With blade terminal</p> <p>Universal contacts suitable for use with electronic devices</p> <p>Positive opening safety function according to IEC/EN 60947-5-1</p> <p>→ Page 126</p>	<p><b>Indicator lights</b> 8</p> <p>Flush and conical designs</p> <p>Built-in lamp socket</p> <p>For filament lamps and LEDs</p> <p>Colors: white, green, red, yellow, blue custom laser inscription</p> <p>→ Page 131</p>	

#### Product selection

3



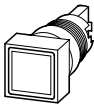
Front dimensions  
18 x 18 mm

Front dimensions  
25 x 25 mm

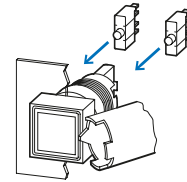
Color **Part no.** **Part no.** Std. pack  
Button plate Article no. Article no.

#### Pushbuttons, IP65

momentary



	green	<b>Q18D-11</b> 086332	<b>Q25D-11</b> 090471	10 off
	red	<b>Q18D-10</b> 086299	<b>Q25D-10</b> 090421	
	white	<b>Q18D-20</b> 054041	<b>Q25D-20</b> 054038	
	black	<b>Q18D-19</b> 054040	<b>Q25D-19</b> 054039	
	black	<b>Q18D-SW</b> 086788	<b>Q25D-SW</b> 087230	
	white	<b>Q18D-WS</b> 086752	<b>Q25D-WS</b> 086808	
	green	<b>Q18D-GN</b> 086450	<b>Q25D-GN</b> 086409	
	red	<b>Q18D-RT</b> 086713	<b>Q25D-RT</b> 086444	
	yellow	<b>Q18D-GE</b> 086417	<b>Q25D-GE</b> 086343	
	blue	<b>Q18D-BL</b> 086384	<b>Q25D-BL</b> 086328	
-	none	<b>Q18D-X</b> 093623	<b>Q25D-X</b> 093624	



#### Accessories

Assembly aids and accessories

Contact elements

N/O Contact

N/C contact

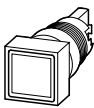
#### Page

→ 138

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→ 126

maintained



	black	<b>Q18DR-SW</b> 086269	<b>Q25DR-SW</b> 088739	10 off
	white	<b>Q18DR-WS</b> 086243	<b>Q25DR-WS</b> 088701	
	green	<b>Q18DR-GN</b> 086176	<b>Q25DR-GN</b> 088531	
	red	<b>Q18DR-RT</b> 086209	<b>Q25DR-RT</b> 088627	
	yellow	<b>Q18DR-GE</b> 090482	<b>Q25DR-GE</b> 088404	
	blue	<b>Q18DR-BL</b> 090241	<b>Q25DR-BL</b> 088110	
-	none	<b>Q18DR-X</b> 093625	<b>Q25DR-X</b> 093626	

Contact configuration:

⊕ = Safety function by positive opening according to IEC/EN 60947-5-1

N/O = normally open contact

N/C = normally closed contact

Contact sequence

Contact diagram

Color

**Part no.**  
Article no.

Std. pack

#### Contact blocks

Operational voltage: 5 - 250 V

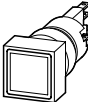





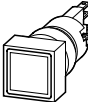





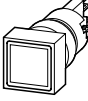





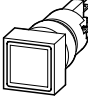





1 N/O	-				<b>E10</b> 090351	50 off
-	1 N/C ⊕				<b>E01</b> 090401	50 off

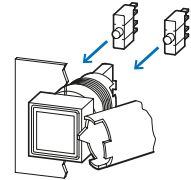
Notes

$\begin{matrix} | \\ \swarrow \\ \searrow \\ | \end{matrix} \begin{matrix} xy \\ xy \end{matrix}$  x = Sequence number on front element  
y = Function number on contact element





	Color		Part no. Article no.	Part no. Article no.	Std. pack
<b>Illuminated pushbuttons, IP65</b>					
<b>momentary</b> Without filament lamp 		–	<b>Q18LT-WS</b> 089202	<b>Q25LT-WS</b> 086262	10 off
		–	<b>Q18LT-GN</b> 089067	<b>Q25LT-GN</b> 086206	
		–	<b>Q18LT-RT</b> 089776	<b>Q25LT-RT</b> 086238	
		–	<b>Q18LT-GE</b> 088808	<b>Q25LT-GE</b> 086173	
		–	<b>Q18LT-BL</b> 088764	<b>Q25LT-BL</b> 090479	
	–	Without lens	<b>Q18LT-X</b> 051745	<b>Q25LT-X</b> 051746	
<b>momentary</b> With filament lamp, 24 V 		–	<b>Q18LT-WS/WB</b> 088561	<b>Q25LT-WS/WB</b> 090226	10 off
		–	<b>Q18LT-GN/WB</b> 088509	<b>Q25LT-GN/WB</b> 089190	
		–	<b>Q18LT-RT/WB</b> 088537	<b>Q25LT-RT/WB</b> 089998	
		–	<b>Q18LT-GE/WB</b> 088449	<b>Q25LT-GE/WB</b> 089137	
		–	<b>Q18LT-BL/WB</b> 088338	<b>Q25LT-BL/WB</b> 089102	
	–	Without lens	<b>Q18LTR-X</b> 051735	<b>Q25LTR-X</b> 051736	
<b>maintained</b> Without filament lamp 		–	<b>Q18LTR-WS</b> 088123	<b>Q25LTR-WS</b> 087232	10 off
		–	<b>Q18LTR-GN</b> 087831	<b>Q25LTR-GN</b> 086812	
		–	<b>Q18LTR-RT</b> 087918	<b>Q25LTR-RT</b> 086840	
		–	<b>Q18LTR-GE</b> 087764	<b>Q25LTR-GE</b> 086784	
		–	<b>Q18LTR-BL</b> 086813	<b>Q25LTR-BL</b> 086739	
	–	Without lens	<b>Q18LTR-X</b> 051735	<b>Q25LTR-X</b> 051736	
<b>maintained</b> With filament lamp, 24 V 		–	<b>Q18LTR-WS/WB</b> 086708	<b>Q25LTR-WS/WB</b> 086447	10 off
		–	<b>Q18LTR-GN/WB</b> 086413	<b>Q25LTR-GN/WB</b> 086380	
		–	<b>Q18LTR-RT/WB</b> 086448	<b>Q25LTR-RT/WB</b> 086412	
		–	<b>Q18LTR-GE/WB</b> 086382	<b>Q25LTR-GE/WB</b> 086346	
		–	<b>Q18LTR-BL/WB</b> 086348	<b>Q25LTR-BL/WB</b> 086330	
	–	Without lens	<b>Q18LTR-X</b> 051735	<b>Q25LTR-X</b> 051736	



<b>Accessories</b>	<b>Page</b>
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Contact elements	
N/O Contact	→ 126
N/C contact	→ 126




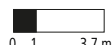

Contact configuration:  
⊕ = Safety function by positive opening according to IEC/EN 60947-5-1


N/O = normally open contact  
N/C = normally closed contact

Contact sequence      Contact diagram      Color      Part no. Article no.      Std. pack

**Contact elements**

Operational voltage: 5 - 250 V

1 N/O	–				<b>E10</b> 090351	50 off
–	1 N/C ⊕				<b>E01</b> 090401	50 off

**Notes**  

 x = Sequence number on front element  
 y = Function number on contact element



Front dimensions  
18 × 18 mm

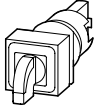
Front dimensions  
25 × 25 mm

Function:	Color	Part no. Article no.	Part no. Article no.	Std. pack
▷ = momentary				
┘ = maintained				

#### Changeover switches, IP65

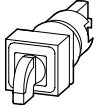
Incl. anti-rotation feature VS

Two positions



▷ 45°	○	<b>Q18WK1</b> 036515	<b>Q25WK1</b> 036599	5 off
┘ 45°	○	<b>Q18WK1R</b> 036598	<b>Q25WK1R</b> 036600	

Three positions



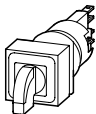
45° ◁ ▷ 45°	○	<b>Q18WK3</b> 072308	<b>Q25WK3</b> 072372	5 off
45° ▾ ▷ 45°	○	<b>Q18WK3R</b> 072309	<b>Q25WK3R</b> 072373	
45° ▽ ▷ 45°	○	<b>Q18WK3R1</b> 072310	<b>Q25WK3R1</b> 072374	
45° ◁ ▷ 45°	○	<b>Q18WK3R2</b> 072311	<b>Q25WK3R2</b> 072375	

#### Illuminated selector switch actuators, IP65

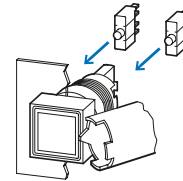
With VS anti-rotation tab

Without filament lamp

Two positions



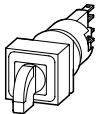
▷ 45°	○	<b>Q18LWK1-WS</b> 040349	<b>Q25LWK1-WS</b> 040658	5 off
▷ 45°	●	<b>Q18LWK1-RT</b> 039337	<b>Q25LWK1-RT</b> 040657	
▷ 45°	●	<b>Q18LWK1-GN</b> 039336	<b>Q25LWK1-GN</b> 040656	
┘ 45°	○	<b>Q18LWK1R-WS</b> 040376	<b>Q25LWK1R-WS</b> 040661	
┘ 45°	●	<b>Q18LWK1R-RT</b> 040351	<b>Q25LWK1R-RT</b> 040660	
┘ 45°	●	<b>Q18LWK1R-GN</b> 040350	<b>Q25LWK1R-GN</b> 040659	



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Contact elements	
N/O Contact	→ 126
N/C contact	→ 126

With filament lamp, 24 V

Two positions



▷ 45°	○	<b>Q18LWK1-WS/WB</b> 038978	<b>Q25LWK1-WS/WB</b> 040379	5 off
▷ 45°	●	<b>Q18LWK1-RT/WB</b> 038930	<b>Q25LWK1-RT/WB</b> 040378	
▷ 45°	●	<b>Q18LWK1-GN/WB</b> 038883	<b>Q25LWK1-GN/WB</b> 040377	
┘ 45°	○	<b>Q18LWK1R-WS/WB</b> 039335	<b>Q25LWK1R-WS/WB</b> 040476	
┘ 45°	●	<b>Q18LWK1R-RT/WB</b> 039248	<b>Q25LWK1R-RT/WB</b> 040381	
┘ 45°	●	<b>Q18LWK1R-GN/WB</b> 039247	<b>Q25LWK1R-GN/WB</b> 040380	



Front dimensions  
18 x 18 mm

Front dimensions  
25 x 25 mm

Function:

Color

Part no.  
Article no.

Part no.  
Article no.

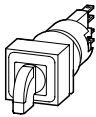
Std. pack

↘ = momentary  
↙ = maintained

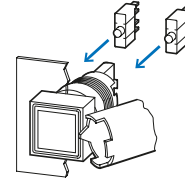
**Illuminated selector switch actuators, IP65**

With VS anti-rotation tab

Without filament lamp  
Three positions



45° ↘↙ 45°	○	<b>Q18LWK3-WS</b> 072322	<b>Q25LWK3-WS</b> 072358	5 off
45° ↘↙ 45°	●	<b>Q18LWK3-RT</b> 072323	<b>Q25LWK3-RT</b> 072359	
45° ↘↙ 45°	●	<b>Q18LWK3-GN</b> 072324	<b>Q25LWK3-GN</b> 072360	
45° ↘↙ 45°	○	<b>Q18LWK3R-WS</b> 072325	<b>Q25LWK3R-WS</b> 072361	
45° ↘↙ 45°	●	<b>Q18LWK3R-RT</b> 072326	<b>Q25LWK3R-RT</b> 072362	
45° ↘↙ 45°	●	<b>Q18LWK3R-GN</b> 072327	<b>Q25LWK3R-GN</b> 072363	
45° ↘↙ 45°	○	<b>Q18LWK3R1-WS</b> 072328	<b>Q25LWK3R1-WS</b> 072364	
45° ↘↙ 45°	●	<b>Q18LWK3R1-RT</b> 072329	<b>Q25LWK3R1-RT</b> 072365	
45° ↘↙ 45°	●	<b>Q18LWK3R1-GN</b> 072330	<b>Q25LWK3R1-GN</b> 072366	
45° ↘↙ 45°	○	<b>Q18LWK3R2-WS</b> 072331	<b>Q25LWK3R2-WS</b> 072367	
45° ↘↙ 45°	●	<b>Q18LWK3R2-RT</b> 072332	<b>Q25LWK3R2-RT</b> 072368	
45° ↘↙ 45°	●	<b>Q18LWK3R2-GN</b> 072333	<b>Q25LWK3R2-GN</b> 072369	



**Accessories**

**Page**

Assembly aids and accessories

→ 138

Contact elements

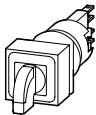
N/O Contact

→ 126

N/C contact

→ 126

With filament lamp, 24 V  
Three positions



45° ↘↙ 45°	○	<b>Q18LWK3-WS/WB</b> 072334	<b>Q25LWK3-WS/WB</b> 072346	5 off
45° ↘↙ 45°	●	<b>Q18LWK3-RT/WB</b> 072335	<b>Q25LWK3-RT/WB</b> 072347	
45° ↘↙ 45°	●	<b>Q18LWK3-GN/WB</b> 072336	<b>Q25LWK3-GN/WB</b> 072348	
45° ↘↙ 45°	○	<b>Q18LWK3R-WS/WB</b> 072337	<b>Q25LWK3R-WS/WB</b> 072349	
45° ↘↙ 45°	●	<b>Q18LWK3R-RT/WB</b> 072338	<b>Q25LWK3R-RT/WB</b> 072350	
45° ↘↙ 45°	●	<b>Q18LWK3R-GN/WB</b> 072339	<b>Q25LWK3R-GN/WB</b> 072351	
45° ↘↙ 45°	○	<b>Q18LWK3R1-WS/WB</b> 072340	<b>Q25LWK3R1-WS/WB</b> 072352	
45° ↘↙ 45°	●	<b>Q18LWK3R1-RT/WB</b> 072341	<b>Q25LWK3R1-RT/WB</b> 072353	
45° ↘↙ 45°	●	<b>Q18LWK3R1-GN/WB</b> 072342	<b>Q25LWK3R1-GN/WB</b> 072354	
45° ↘↙ 45°	○	<b>Q18LWK3R2-WS/WB</b> 072343	<b>Q25LWK3R2-WS/WB</b> 072355	
45° ↘↙ 45°	●	<b>Q18LWK3R2-RT/WB</b> 072344	<b>Q25LWK3R2-RT/WB</b> 072356	
45° ↘↙ 45°	●	<b>Q18LWK3R2-GN/WB</b> 072345	<b>Q25LWK3R2-GN/WB</b> 072357	

Function:	Key withdrawable in position	Color	Part no. Article no.	Part no. Article no.	Std. pack
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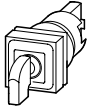
↳ = momentary  
 ↓ = maintained

Front dimensions 18 × 18 mm    Front dimensions 25 × 25 mm

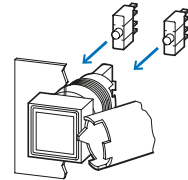
#### IP65, key-operated actuators

With 1 key and VS anti-rotation tab

#### Two positions

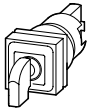


↳ 45°	-	0	-	●	<b>Q18S1</b> 038806	<b>Q25S1</b> 038773	5 off
↓ 45°		0	-	●	<b>Q18S1R</b> 038805	<b>Q25S1R</b> 038772	
↳ 45°	-	0	-	●	<b>Q18S1R-A1</b> 072312	<b>Q25S1R-A1</b> 072376	
↳ 45°	-	0	-	●	<b>Q18S1-GN</b> 062148	<b>Q25S1-GN</b> 062150	
↓ 45°		0	-	●	<b>Q18S1R-GN</b> 062151	<b>Q25S1R-GN</b> 062108	
↳ 45°	-	0	-	●	<b>Q18S1-RT</b> 046841	<b>Q25S1-RT</b> 046843	
↓ 45°		0	-	●	<b>Q18S1R-RT</b> 046837	<b>Q25S1R-RT</b> 046839	
↳ 45°	-	0	-	○	<b>Q18S1-WS</b> 046849	<b>Q25S1-WS</b> 046851	
↓ 45°		0	-	○	<b>Q18S1R-WS</b> 046845	<b>Q25S1R-WS</b> 046847	
↳ 45°	-	0	-	●	<b>Q18S1-BL</b> 045959	<b>Q25S1-BL</b> 046835	
↓ 45°		0	-	●	<b>Q18S1R-BL</b> 062814	<b>Q25S1R-BL</b> 045502	



Accessories	Page
Assembly aids and accessories	→ 138
Contact elements	
N/O Contact	→ 126
N/C contact	→ 126

#### Three positions



45° ↙ 45°	-	0	-	●	<b>Q18S3</b> 072313	<b>Q25S3</b> 072377	5 off
45° ↓ 45°		0		●	<b>Q18S3R</b> 072314	<b>Q25S3R</b> 072378	
45° ↓ 45°	-	0	-	●	<b>Q18S3R-A1</b> 072315	<b>Q25S3R-A1</b> 072379	
45° ↓ 45°		0	-	●	<b>Q18S3R-A2</b> 072316	<b>Q25S3R-A2</b> 072380	
45° ↓ 45°	-	0		●	<b>Q18S3R-A3</b> 072317	<b>Q25S3R-A3</b> 072381	
45° ↙ 45°		0	-	●	<b>Q18S3R-A4</b> 072318	<b>Q25S3R-A4</b> 072382	
45° ↙ 45°	-	0	-	●	<b>Q18S3R-A5</b> 072319	<b>Q25S3R-A5</b> 072383	
45° ↙ 45°	-	0		●	<b>Q18S3R-A6</b> 072320	<b>Q25S3R-A6</b> 072384	
45° ↙ 45°	-	0	-	●	<b>Q18S3R-A7</b> 072321	<b>Q25S3R-A7</b> 072385	
45° ↙ 45°	-	0	-	●	<b>Q18S3-GN</b> 062149	<b>Q25S3-GN</b> 062153	
45° ↓ 45°		0		●	<b>Q18S3R-GN</b> 062152	<b>Q25S3R-GN</b> 062147	
45° ↙ 45°	-	0	-	●	<b>Q18S3-RT</b> 046842	<b>Q25S3-RT</b> 046844	
45° ↓ 45°		0		●	<b>Q18S3R-RT</b> 046838	<b>Q25S3R-RT</b> 046840	
45° ↙ 45°	-	0	-	○	<b>Q18S3-WS</b> 046850	<b>Q25S3-WS</b> 046852	
45° ↓ 45°		0		○	<b>Q18S3R-WS</b> 046846	<b>Q25S3R-WS</b> 046848	
45° ↙ 45°	-	0	-	●	<b>Q18S3-BL</b> 046368	<b>Q25S3-BL</b> 046836	
45° ↓ 45°		0		●	<b>Q18S3R-BL</b> 064430	<b>Q25S3R-BL</b> 045646	

**Notes** For each color there is a corresponding key.  
 → Page 139



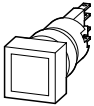
Front dimensions  
18 × 18 mm

Front dimensions  
25 × 25 mm

Color **Part no.** **Part no.** Std. pack  
Article no. Article no.

**Indicator lights, IP65**

flush  
Without filament  
lamp

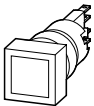


	<b>Q18LF-WS</b> 088406	<b>Q25LF-WS</b> 090228	10 off
	<b>Q18LF-GN</b> 088337	<b>Q25LF-GN</b> 090000	
	<b>Q18LF-RT</b> 088387	<b>Q25LF-RT</b> 090198	
	<b>Q18LF-GE</b> 088303	<b>Q25LF-GE</b> 089252	
	<b>Q18LF-BL</b> 088270	<b>Q25LF-BL</b> 089229	

flush  
Without lens

–	<b>Q18LX</b> 051739	<b>Q25LX</b> 051740	10 off
---	------------------------	------------------------	--------

flush  
With filament  
lamp, 24 V



	<b>Q18LF-WS/WB</b> 088059	<b>Q25LF-WS/WB</b> 089151	10 off
	<b>Q18LF-GN/WB</b> 087947	<b>Q25LF-GN/WB</b> 088828	
	<b>Q18LF-RT/WB</b> 088001	<b>Q25LF-RT/WB</b> 089104	
	<b>Q18LF-GE/WB</b> 087915	<b>Q25LF-GE/WB</b> 088798	
	<b>Q18LF-BL/WB</b> 087860	<b>Q25LF-BL/WB</b> 088761	

Conical  
Without filament  
lamp



	<b>Q18LH-WS</b> 088705	<b>Q25LH-WS</b> 086263	10 off
	<b>Q18LH-GN</b> 088629	<b>Q25LH-GN</b> 086207	
	<b>Q18LH-RT</b> 088655	<b>Q25LH-RT</b> 086241	
	<b>Q18LH-GE</b> 088585	<b>Q25LH-GE</b> 090481	
	<b>Q18LH-BL</b> 088560	<b>Q25LH-BL</b> 090428	

Conical  
With filament  
lamp, 24 V



	<b>Q18LH-WS/WB</b> 088535	<b>Q25LH-WS/WB</b> 090405	10 off
	<b>Q18LH-GN/WB</b> 088483	<b>Q25LH-GN/WB</b> 090312	
	<b>Q18LH-RT/WB</b> 088507	<b>Q25LH-RT/WB</b> 090354	
	<b>Q18LH-GE/WB</b> 088448	<b>Q25LH-GE/WB</b> 090285	
	<b>Q18LH-BL/WB</b> 088424	<b>Q25LH-BL/WB</b> 090240	

### Emergency-Stop pushbuttons, Emergency-Stop labels



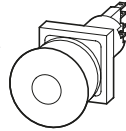
Front dimensions  
25 × 25 mm

Color Degree of protection Part no. Article no. Std. pack

#### Emergency-stop pushbuttons

Tamper-proof according to ISO 13850, EN 418  
Pushbutton remains in pushed position; released by pulling  
Can also be used as emergency-stop key-release mushroom

Non-illuminated



IP65

**Q25PV**  
072370

5 off

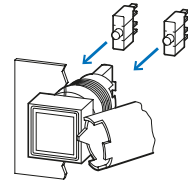
illuminated  
with built-in multiple LED, 24 V DC, I<sub>e</sub> = 15 mA  
Positive pole at X1  
No bulb replacement required.



IP65

**Q25LPV**  
072371

2 off



#### Accessories

Assembly aids and accessories

Contact elements

N/O Contact

N/C contact

#### Page

→ 138

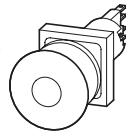
→ 126

→ 126

#### Emergency-stop pushbuttons

Overload-protected to ISO 13850, EN 418  
Pushbutton remains in pushed position; released by pulling

Non-illuminated



IP65

**Q25PV-S**  
257063

5 off

illuminated  
with built-in multiple LED, 24 V DC, I<sub>e</sub> = 15 mA  
Positive pole at X1  
No bulb replacement required.



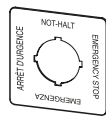
IP65

**Q25LPV-S**  
257064

5 off

#### Emergency-stop labels

Yellow, black lettering



Square  
50 × 50 mm  
de, en, fr, it

IP65

**SQT11**  
121375

5 off



Round  
ø 60 mm  
de, en, fr, it

IP65

**SRT11**  
121374

5 off

#### Emergency-stop labels

Yellow, black lettering



Square  
50 × 50 mm  
de, en, fr, it

IP65

**SQT1**  
058874

5 off



Round  
ø 60 mm  
de, en, fr, it

IP65

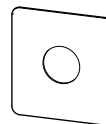
**SRT1**  
058873

5 off

#### Emergency-stop labels

Blank, yellow

Not suitable for engraving

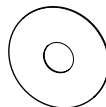


Square  
50 × 50 mm

IP65

**SO-GE**  
063263

5 off

































Round  
ø 60 mm

IP65

**SR-GE**  
063264

5 off



























Button plates for pushbutton actuators

Inscription	Symbol	18 x 18 mm		25 x 25 mm		Std. pack
		Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.	
<b>Marking plates</b>						
–		<b>01TQ18</b> 086816	<b>01TQ25</b> 091121			20 off
–		<b>02TQ18</b> 086859	<b>02TQ25</b> 091149			
–		<b>03TQ18</b> 087766	<b>03TQ25</b> 091184			
–		<b>04TQ18</b> 087834	<b>04TQ25</b> 091442			
–		<b>05TQ18</b> 087867	<b>05TQ25</b> 091471			
–		<b>06TQ18</b> 087920	<b>06TQ25</b> 091506			
With customized inscription via Labeleditor → Notes		<b>XQ18D-*. *1)</b> 285286	<b>XQ25D-*. *1)</b> 285287			1 off
OFF		<b>10TQ18</b> 087951	<b>10TQ25</b> 091536			20 off
STOP or OFF		<b>19TQ18</b> 054510	<b>19TQ25</b> 054508			
ON		<b>11TQ18</b> 088007	<b>11TQ25</b> 091562			
START or ON		<b>20TQ18</b> 054509	<b>20TQ25</b> 054507			
START or ON		<b>21TQ18</b> 088061	<b>21TQ25</b> 091586			
Direction of movement		<b>32TQ18</b> 088125	<b>32TQ25</b> 091618			
Direction of movement		<b>36TQ18</b> 088275	<b>36TQ25</b> 092592			
Electr. voltage		<b>34TQ18</b> 095386	<b>34TQ25</b> 092563			
Increase		<b>37TQ18</b> 088315	<b>37TQ25</b> 092608			
Decrease		<b>38TQ18</b> 088340	<b>38TQ25</b> 092645			
Manual operation		<b>40TQ18</b> 088389	<b>40TQ25</b> 092709			
Automatic		<b>41TQ18</b> 088412	<b>41TQ25</b> 092774			
ON–OFF, momentary		<b>43TQ18</b> 088426	<b>43TQ25</b> 092791			
Unlock		<b>52TQ18</b> 088452	<b>52TQ25</b> 092825			
Lock		<b>53TQ18</b> 088487	<b>53TQ25</b> 092874			
Unclamp		<b>54TQ18</b> 088512	<b>54TQ25</b> 093013			
Clamp		<b>55TQ18</b> 088545	<b>55TQ25</b> 093032			
Liquid START			<b>921TQ25</b> 047426			
Liquid STOP		<b>63TQ18</b> 088566	<b>63TQ25</b> 093060			
Klaxon		<b>66TQ18</b> 088590	<b>66TQ25</b> 093092			
Spindle START			<b>811TQ25</b> 053898			
Spindle STOP			<b>814TQ25</b> 047425			
ON–OFF, maintained		<b>899TQ18</b> 089232	<b>899TQ25</b> 093063			

Notes

- When ordering, complete part no. XQ18D-\*. \* or XQ25D-\*. \*:
  - Wildcard \* Δ color, e.g.: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)
  - Wildcard \* Δ file name generated by Labeleditor → Engineering, Page 74
- Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139

## Button plates for pushbutton actuators

Inscription	Symbol	18 x 18 mm	25 x 25 mm	Std. pack
		Part no. Article no.	Part no. Article no.	
<b>Marking plates</b>				
Direction of movement		<b>911TQ18</b> 089778	<b>911TQ25</b> 093100	20 off
Direction of movement		<b>912TQ18</b> 090181	<b>912TQ25</b> 093135	
		<b>80TQ18</b> 088631	<b>80TQ25</b> 093134	
		<b>81TQ18</b> 088663	<b>81TQ25</b> 093158	
		<b>82TQ18</b> 088715	<b>82TQ25</b> 093178	
		<b>83TQ18</b> 088744	<b>83TQ25</b> 093197	
		<b>84TQ18</b> 088766	<b>84TQ25</b> 093224	
		<b>85TQ18</b> 088811	<b>85TQ25</b> 093241	
		<b>86TQ18</b> 089069	<b>86TQ25</b> 093257	
		<b>87TQ18</b> 089107	<b>87TQ25</b> 093288	
		<b>88TQ18</b> 089165	<b>88TQ25</b> 093305	
		<b>89TQ18</b> 089205	<b>89TQ25</b> 093329	
STOP			<b>110TQ25</b> 093363	
STOP			<b>112TQ25</b> 063748	
ARRET			<b>310TQ25</b> 091446	
START			<b>111TQ25</b> 093399	
START			<b>122TQ25</b> 063746	
MARCHE			<b>311TQ25</b> 091475	
AUS			<b>117TQ25</b> 093434	
AUS			<b>113TQ25</b> 063749	
OFF			<b>217TQ25</b> 090911	
ARRET			<b>317TQ25</b> 091508	
EIN			<b>121TQ25</b> 093461	
EIN			<b>123TQ25</b> 063747	
ON			<b>221TQ25</b> 090934	
MARCHE			<b>321TQ25</b> 091563	



















**Notes**


























Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139



Button plates for pushbutton actuators

25 x 25 mm

Inscription	Symbol	Part no. Article no.	Std. pack
<b>Marking plates</b>			
LINKS		<b>134T025</b> 093494	20 off
LEFT		<b>234T025</b> 090987	
GAUCHE		<b>334T025</b> 092567	
RECHTS		<b>135T025</b> 093527	
RIGHT		<b>235T025</b> 091009	
DROITE		<b>335T025</b> 092594	
ZU		<b>153T025</b> 090632	
CLOSE		<b>253T025</b> 091089	
FERME		<b>353T025</b> 092609	
AUF		<b>172T025</b> 090732	
UP		<b>272T025</b> 091124	
MONTEE		<b>372T025</b> 092711	
AB		<b>173T025</b> 090822	
DOWN		<b>273T025</b> 091152	
DESCENTE		<b>373T025</b> 092775	
RESET		<b>287T025</b> 091185	
VOR		<b>190T025</b> 090852	
ZURÜCK		<b>191T025</b> 090866	
<b>Notes</b>	Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139		

Inscription		Label mounts Q25T... with insert label <b>Part no.</b> Article no.	Insert plates for Q25T...-X label mount <b>Part no.</b> Article no.	Std. pack
<b>Marking plates</b>				
Blank, black, suitable for engraving		<b>Q25TS-01</b> 046184	<b>01SQ25</b> 037986	20 off
Blank, aluminium-colored, suitable for engraving		<b>Q25TS-02</b> 046185	<b>02SQ25</b> 038074	
Blank, yellow, not suitable for engraving		<b>Q25TGE-05</b> 063259	<b>05SQ25</b> 063201	
AUS		<b>Q25TS-117</b> 046194		
EIN		<b>Q25TS-121</b> 046196		
ON		<b>Q25TS-221</b> 046197		
STOP		<b>Q25TS-110</b> 046190	<b>110SQ25</b> 038507	
START		<b>Q25TS-111</b> 046192		
Störung		<b>Q25TS-150</b> 046198		
FAULT		<b>Q25TS-250</b> 046199		
DÉFAUT		<b>Q25TS-386</b> 072306	<b>386SQ25</b> 072302	
Betrieb		<b>Q25TS-183</b> 046201		
EN SERVICE		<b>Q25TS-383</b> 046204		
HAND 0 AUTO		<b>Q25TS-197</b> 072305		
MAN. 0 AUTO		<b>Q25TS-397</b> 072307		
NOT-AUS		<b>Q25TGE-199</b> 063260	<b>199SQ25</b> 063200	
EMERGENCY STOP		<b>Q25TGE-299</b> 063261	<b>299SQ25</b> 063199	
RUN			<b>283SQ25</b> 038767	
EN SERVICE			<b>383SQ25</b> 038771	
ARRÊT D'URGENCE			<b>399SQ25</b> 048638	
-		<b>Q25TS-10</b> 046186	<b>10SQ25</b> 038268	
-		<b>Q25TS-11</b> 046187		
-		<b>Q25TS-32</b> 046188		
-		<b>Q25TS-90</b> 046189	<b>90SQ25</b> 038271	
-		<b>Q25TS-93</b> 072304	<b>93SQ25</b> 072300	
With customized inscription via Labeleditor → Notes	-	<b>XQ25TS-*.*</b> 109773		1 off

**Notes**

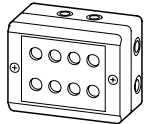
When ordering, complete part no. XQ25TS-\*.\*

1. Wildcard \* Δ color: AL = aluminum, B = black, Y = yellow
2. Wildcard \* Δ file extension

Color	RAL number	Part no. Article no.	Std. pack
-------	------------	-------------------------	-----------

**Surface mounting enclosure, IP65<sup>1)</sup>**

For conventional wiring  
with moulded cover fixing screws  
Enclosure base: black (RAL 9005)  
8 mounting locations  
Knockout cable entry  
Bottom: 4 x M20  
Sides: 7 x M20



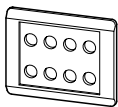
RAL 7035

**I8**  
046299

2 off

**Flush mounting plate, IP65<sup>1)</sup>**

For conventional wiring  
8 mounting locations



RAL 7035

**E8**  
054423

1 off



RAL 9005

**E8-SW**  
065212

1 off

**Customized complete unit**

Parameterizable  
To order use form FO315 → Data sheet in Online Catalog

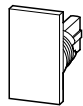


**M16-COMBINATION**  
2010762

1 off

**Blanking plates, IP65**

For closing off of spare mounting locations in surface mounting enclosures or flush mounting plates in grid dimension 25 x 37.5 mm



RAL 9005

**Q25AS**  
036602

10 off



RAL 7035

**Q25AGR**  
048641

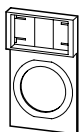


RAL 1004

**Q25AGE**  
048640

**Label mounts without insert label**

For additional marking of mounting locations in surface mounting enclosures or flush mounting plates in grid dimension 25 x 37.5 mm  
Suitable insert labels → Page 136



RAL 9005

**Q25TS-X**  
036601

20 off



RAL 7035

**Q25TGR-X**  
063257

















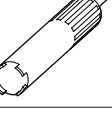






RAL 1004

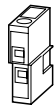
**Q25TGE-X**  
063258

**Notes**

<sup>1)</sup> Unused mounting locations must be closed off with blanking plates.  
Each used mounting location must be fitted with a label mount.

3

Type	Lifespan EN 60064, $t_a = +25\text{ °C}$ $t_{\text{avg}}(\text{AC})$ h	Color	Part no. Article no.	Std. pack	
<b>Filament lamp W 2 × 4.6 d</b>					
 6 V/1.0 W	10000	–	<b>WBGL6</b> 090223	50 off	
12 V/1.0 W	15000	–	<b>WBGL12</b> 089968	50 off	
24 - 28 V/1.0 W	7000	–	<b>WBGL24</b> 089247	100 off	
<b>Multiple LEDs W 2 × 4.6 d</b>					
 6 V/45 mA	60000		<b>WBLED-GE6</b> 055711	10 off	
			<b>WBLED-GN6</b> 055712		
			<b>WBLED-RT6</b> 055713		
12 V/24 mA	60000		<b>WBLED-GE12</b> 055714		
			<b>WBLED-GN12</b> 055715		
			<b>WBLED-RT12</b> 055716		
<b>Single chip LED W 2 × 4.6 d</b>					
Positive pole to X1, Integral suppressor circuit up to 1000 V					
 18 - 30 V DC/7 - 12.5 mA	100000		<b>LEDWB-Y</b> 208724	10 off	
			<b>LEDWB-G</b> 208725		
			<b>LEDWB-R</b> 208726		
			<b>LEDWB-W</b> 208728		
			<b>LEDWB-B</b> 208727		
<b>Mounting ring tool</b>					
For fixing nut with bulb extractor					
	–	–	<b>R16-MS</b> 090297	10 off	
<b>Insulated ferrule</b>					
For fast-on connector 2.8 × 0.8 mm, plug-in type from front $U_g > 50\text{ V AC}$ , $U_g > 120\text{ V DC}$					
	–	–	<b>ISH2.8</b> 090267	100 off	
<b>Fast-on connector</b>					
2.8 × 0.8 mm for conductor cross-section 0.5 - 1 mm <sup>2</sup>					
	–	–	<b>LT306.022.3</b> 058863	100 off	
<b>Blanking plugs, IP65</b>					
For closing off of spare mounting locations					
	For grid dimension 18 × 18 mm	–		<b>Q18BS</b> 037985	10 off
	For grid dimension 25 × 25 mm	–		<b>Q25BS</b> 036976	10 off
<b>Anti-rotation tab</b>					
Guard-ring as anti-rotation tab for all RMQ16 buttons					
	–	–	<b>VS</b> 046301	50 off	



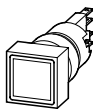
For use with	Color	Part no. Article no.	Std. pack
<b>Screw adapter, IP20</b>			
Conductor cross-sections 1 × 1.5 mm <sup>2</sup> , 2 × 0.75 mm <sup>2</sup>			
For N/C contacts		<b>SRA01</b> 028101	20 off
For N/O contacts		<b>SRA10</b> 028100	
For lamp socket		<b>SRAL</b> 028099	



<b>Individual key</b>			
Standard lock mechanism, black, each color corresponds to a specific lock mechanism			
–		<b>ES16</b> 065190	10 off
–		<b>ES16-GN</b> 030742	5 off
–		<b>ES16-RT</b> 030741	
–		<b>ES16-WS</b> 030743	
–		<b>ES16-BL</b> 030744	

**Transparent insert plates**

For better light diffusion			
For grid dimension 18 × 18 mm		<b>01LQ18</b> 090231	20 off
For grid dimension 25 × 25 mm		<b>01LQ25</b> 093180	



**Lenses for illuminated pushbutton**

With customized inscription to order via Labeleditor → Notes			
For grid dimension 18 × 18 mm	–	<b>XQ18LT-*.*</b> 285288	1 off
For grid dimension 25 × 25 mm	–	<b>XQ25LT-*.*</b> 285289	

**Lenses for indicator lights, flush**

With customized inscription to order via Labeleditor → Notes			
For grid dimension 18 × 18 mm	–	<b>XQ18LF-*.*</b> 285310	1 off
For grid dimension 25 × 25 mm	–	<b>XQ25LF-*.*</b> 285311	

**Insert labels for label mounts**

For laser inscription with Labeleditor → Notes			
For Q25TS-...	–	<b>XQ25TS-*.*</b> 109773	1 off

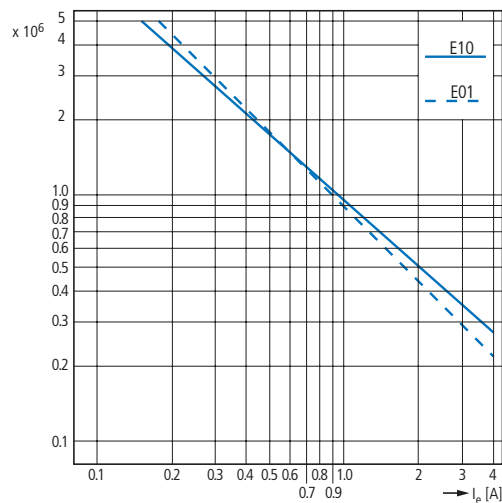
**Notes** When ordering, complete part no. XQ...-\*.\*:  
 1. Wildcard \* ≙ color, e. g.: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)  
 2. Wildcard \* ≙ file name generated by Labeleditor → Engineering, Page 74

## Technical data

3

			Contact elements	Illuminated push-button actuators (maintained)	Illuminated selector switch actuators	Indicator lights		
<b>General</b>								
Standards			IEC/EN 60947, VDE 0660					
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 100	> 30	> 3	–		
Operating frequency	Operations/h		≤ 3600	≤ 1800	≤ 1800	–		
Operating force	N		3	4	–	–		
Operating torque	Nm		–	–	≤ 0.2	–		
Degree of protection, IEC/EN 60529			IP20 with ISH2.8	IP65	IP65	IP65		
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30					
Ambient air temperature								
Open	°C		-25 - +60	-25 - +60	-25 - +60	-25 - +60		
Enclosed	°C		-25 - +40	-25 - +40	-25 - +40	-25 - +40		
Mounting position			any	any	any	any		
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal			g	> 40	> 40	> 40		
Terminal capacity			mm <sup>2</sup>	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0		
Blade terminal			2.8 x 0.8 mm to DIN 46244					
Fast-on connector			2.8 x 0.8 mm to DIN 46247 and IEC 60760					
<b>Contacts</b>								
Rated impulse withstand voltage			U <sub>imp</sub>	V AC	4000	800	800	800
Rated insulation voltage			U <sub>i</sub>	V	250	250	250	250
Overvoltage category/degree of pollution					III/3	III/3	III/3	III/3
Rated operating voltage			U <sub>e</sub>	V AC	250	24	24	24
Control circuit reliability								
At 24 V DC/5 mA			H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> (i.e. 1 failure to 10 <sup>7</sup> operations)		–	
At 5 V DC/1 mA			H <sub>F</sub>	Fault probability	< 5 x 10 <sup>-6</sup> (i.e. 1 failure to 5 x 10 <sup>6</sup> operations)		–	
Use of ISH insulated ferrule 2.8			On > 24 V AC/DC recommended On > 50 V AC or 120 V DC mandatory, also on unoccupied blade terminals					
Max. short-circuit protective device								
fuseless			Part no.	FAZ-B6/1	–	–	–	
Fuse			gG/gL	A	10	–	–	
<b>Switching capacity</b>								
Rated operational current								
AC-15								
24 V	I <sub>e</sub>	A	4	–	–	–		
48 V	I <sub>e</sub>	A	4	–	–	–		
110 V	I <sub>e</sub>	A	4	–	–	–		
230 V	I <sub>e</sub>	A	4	–	–	–		
DC-13								
24 V	I <sub>e</sub>	A	3	–	–	–		
42 V	I <sub>e</sub>	A	1	–	–	–		
60 V	I <sub>e</sub>	A	0.8	–	–	–		
110 V	I <sub>e</sub>	A	0.5	–	–	–		
220 V	I <sub>e</sub>	A	0.2	–	–	–		

		Pushbuttons (maintained)	Changeover switches	Key-operated actuator	Emergency-stop pushbuttons
<b>General</b>					
Standards		IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup> > 3	> 3	> 3	> 0.1
Operating frequency	Operations/h	≤ 1800	≤ 1800	≤ 1800	≤ 600
Operating force	N	4	–	–	25
Operating torque	Nm	–	0.2	0.4	–
Degree of protection, IEC/EN 60529		IP65	IP65	IP65	IP65
Climatic proofing		Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient air temperature					
Open		°C -25 - +60	-25 - +60	-25 - +60	-25 - +60
Enclosed		°C -25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position		any	any	any	any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g > 40	> 40	> 40	> 40
Terminal capacity		mm <sup>2</sup> 0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal		2.8 × 0.8 mm to DIN 46244			
Fast-on connector		2.8 × 0.8 mm to DIN 46247 and IEC 60760			



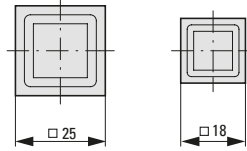
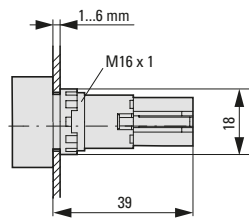
Lifespan, electrical AC-15 according to IEC/EN 60947-5-1 at 230 V;  $I_e$  = rated operational current

### Dimensions

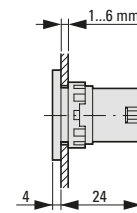
#### Actuating and indicator elements

3

##### Square style

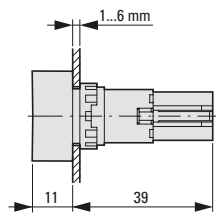


##### Q...BS

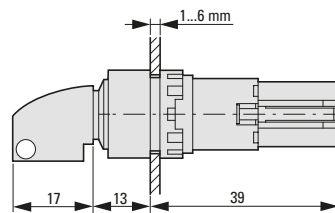


##### Q...D-...

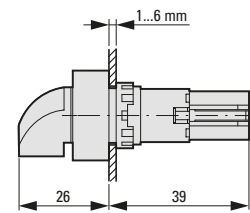
##### Q...DR-...



##### Q...S...



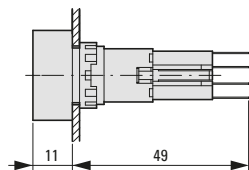
##### Q...WK...



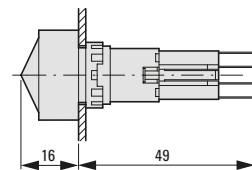
##### Q...LT-...

##### Q...LTR-...

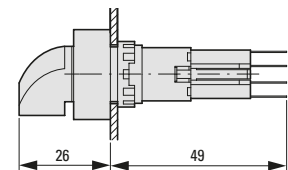
##### Q...LF-...



##### Q...LH-...

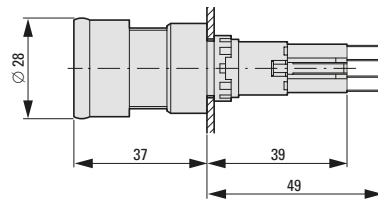
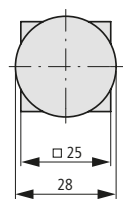


##### Q...LWK...



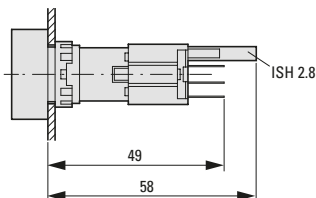
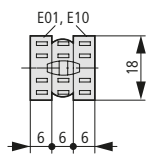
##### Q25PV...

##### Q25LPV...

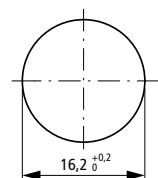


#### Front mount

Q18, Q25, E89, SRA, VS, M16

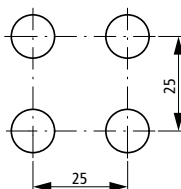


#### Drilling dimensions



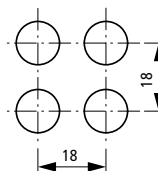
#### Grid dimension to IEC/EN 60947

Q25

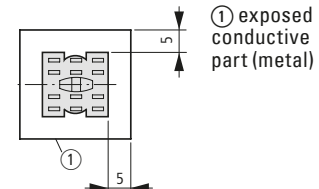


#### Minimum grid dimension

Q18



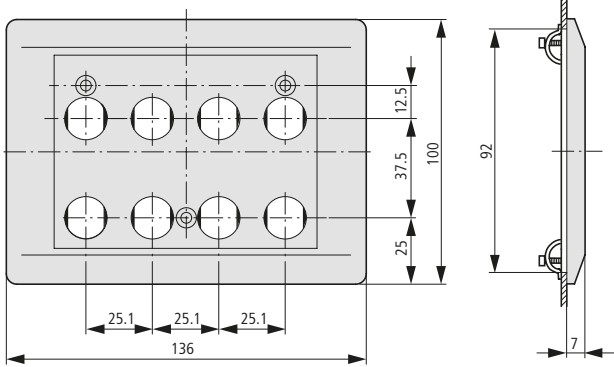
#### Mounting distance





**Flush mounting plate**

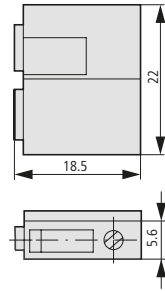
E8...



Size of cutout: 92 mm × 94 mm

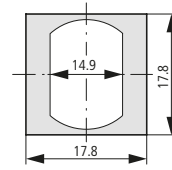
**RMQ16 screw adapters**

SRA...



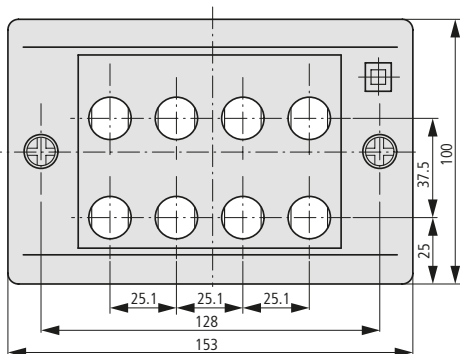
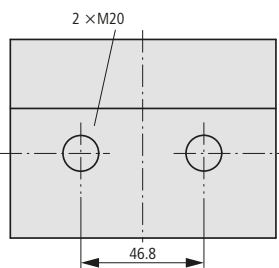
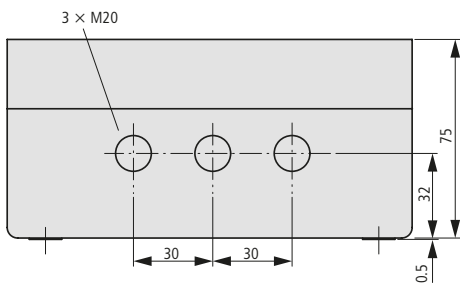
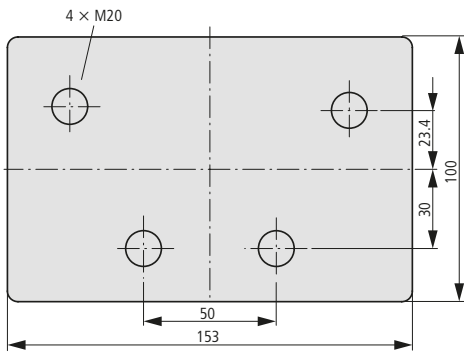
**Anti-rotation tab**

VS



**Housing extension RMQ16**

I8...

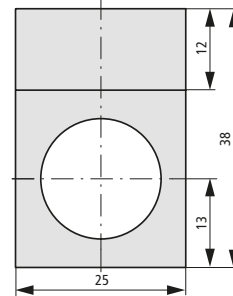


Fixing hole: 2 x Ø 4.5 mm

Distance: 128 mm

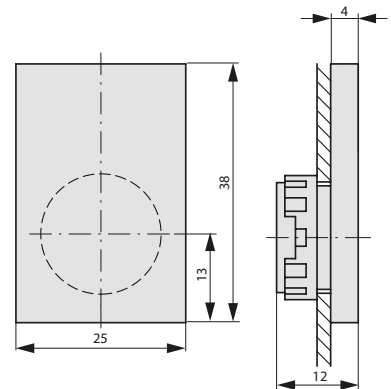
**Label mounts RMQ16**

Q25TS...



**Blanking plates**

Q25AS



# Build it in.



## Foot and Palm Switches for Universal Use in all Kinds of environments

The large actuation surface on our heavy-duty FAK foot and palm switches makes them both intuitive and quick to use. In addition, they feature a tamper-proof design, preventing tampering during use. FAK devices can be actuated by hand, fist, elbow, or foot, ensuring that quick action can be taken to protect personnel and property whenever necessary. Finally, a high degree of shock resistance and extremely high IP67, IP69K degrees of protection make FAK units the ideal device for rugged applications.

FAK foot and palm switches with a red actuation surface on a yellow background are approved for use as emergency stop buttons. They perfectly match the characteristics required in DIN EN 60204, Safety of machinery – Electrical equipment of machines, and meet all relevant requirements. Moreover, the devices are tamper-proof (see IEC 60947-5) and feature positive-opening contacts (see IEC 60947-5-1).

[www.eaton.eu/rmq](http://www.eaton.eu/rmq)

FAK



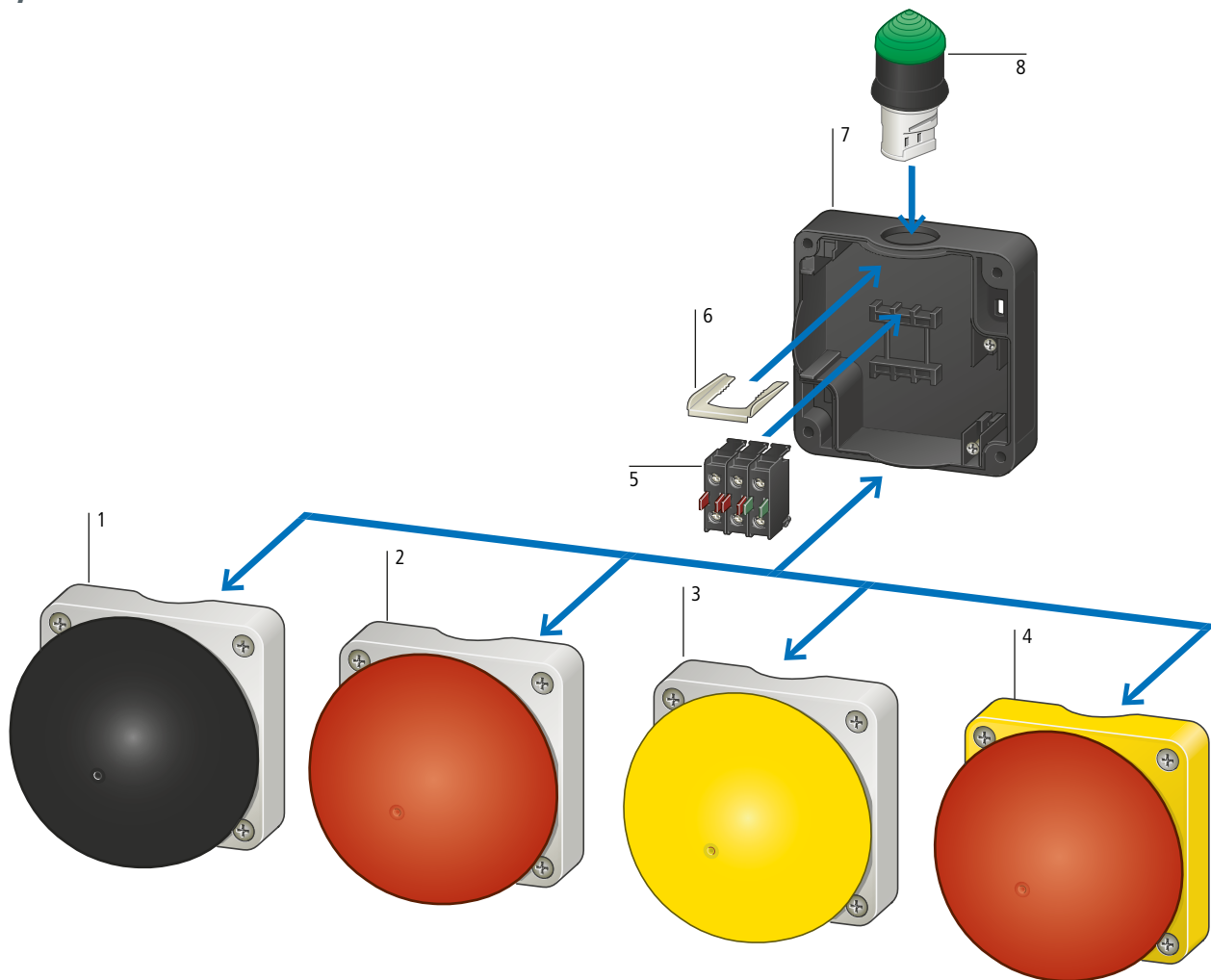
**4.0 FAK foot and palm switch**

**4.0 System overview** ..... 145

**4.1 Product selection**  
Complete units, individual components ..... 146

**4.2 Technical data, dimensions** ..... 147

**System overview**



<b>Enclosure base</b>	<b>7</b>
Prepared for contact elements	
Base fixing (not for ...SMC... contacts)	
→ Page 146	

<b>Contact elements</b>	<b>5</b>
Base fixing	
→ Page 48	

<b>Operator only with button</b>	<b>1, 2,</b>
Various color combinations	<b>3, 4</b>
Yellow/red for Emergency stop or emergency switching off applications	
European Machinery Safety Directive 2006/42/EC	
For foot or hand operation	
→ Page 146	

<b>Indicator lights</b>	<b>6, 8</b>
Conical	
BA9s base	
→ Page 33	

### Product selection

Contact configuration:  
 ⊕ = Safety function by positive opening according to IEC/EN 60947-5-1

N/O = normally open contact  
 N/C = normally closed contact

Contact sequence

Approval mark

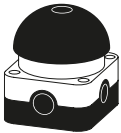
Part no.  
Article no.

Std. pack

4

#### Foot and palm switches FAK, IP67, IP69K

momentary



1 N/O

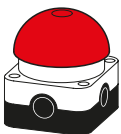
1 N/C ⊕



**FAK-S/KC11/I**  
229749

1 off

momentary



1 N/O

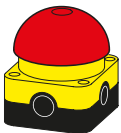
1 N/C ⊕



**FAK-R/KC11/I**  
229746

1 off

maintained



Pull to release  
Emergency-stop button tamper-proof to ISO 13850/EN 418

–

1 N/C ⊕



**FAK-R/V/KC01/IY**  
229747

1 off

1 N/O

1 N/C ⊕



**FAK-R/V/KC11/IY**  
229748

–

2 N/C ⊕



**FAK-R/V/KC02/IY**  
256790



#### Customized complete units

An order consists of: enclosure base, enclosure top, contact elements for base fixing (→ Page 48)

**FAK-COMBINATION** 1 off  
2010763



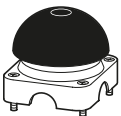
#### Enclosure base

For max. 3 contact elements

**FAK-IU** 1 off  
229753

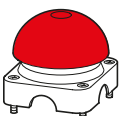
#### Enclosure top

momentary



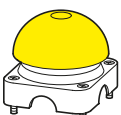
**FAK-S** 1 off  
095540

momentary



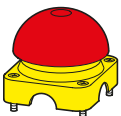
**FAK-R**  
071810

momentary



**FAK-Y**  
229754

maintained



**FAK-R/V/Y**  
229755

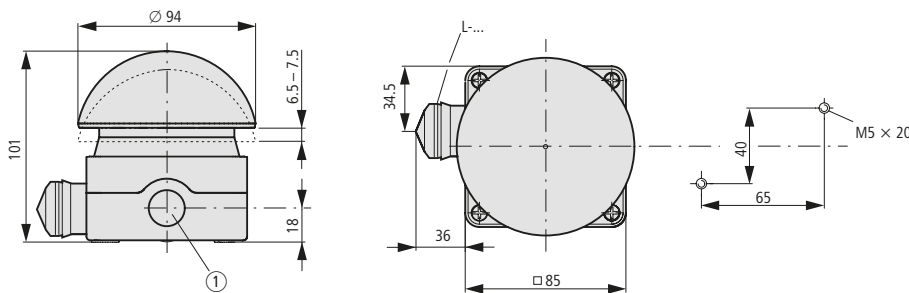
Technical data

		FAK foot and palm switch	
		momentary	maintained
<b>General</b>			
Standards		IEC/EN 60947, VDE 0660	
Standards		IEC/EN 60947, VDE 0660	
Lifespan, mechanical	Operations x 10 <sup>6</sup>	1	0.1
Operating frequency	Operations/h	≤ 3600	≤ 600
Operating force	N	20 - 40	40 - 60
Degree of protection, IEC/EN 60529		IP67, IP69K	IP67, IP69K
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	
Ambient air temperature			
Open	°C	-25 - +40	-25 - +40
Mounting position		any	
Mechanical shock resistance to IEC 60068-2-27		g > 15	
Shock duration 11 ms, half-sinusoidal			

4

Dimensions

FAK...



① 3 x M20 (Pg 13.5) lateral  
1 x M16 in the base

# Build it in.



## Signal Operating States Quickly, Clearly, and Flexibly



SL7/SL4 signal towers configurator  
[www.eaton.eu/config/SL](http://www.eaton.eu/config/SL)

SL4 and SL7 signal towers are used to continuously signal operating states for machines, systems, and processes. Their scope of application is extremely wide-ranging, going from production, through logistics, all the way to retail. This is in no small part thanks to the fact that the fast and clear signaling they provide ensures smooth and safe operation in any environment.

The light and acoustic modules in the series can be configured flexibly both in terms of volume and of the specific visual signals they emit. This versatility is only further enhanced by the signal towers' high-performance LEDs, which ensure that visual signals are recognized even under adverse light conditions. Moreover, a high IP66 degree of protection makes it possible to use the signal towers in demanding environments, such as outdoors.

With a diameter of 40 mm / 70 mm, SL4 and SL7 signal towers feature extremely compact dimensions designed to save space. In addition, only a few steps are required in order to quickly and easily install and remove them, which can prove to be a tremendous advantage when packing and transporting control panels or machines.

Connecting the signal towers to a SmartWire-DT communication system cuts down on wiring time and reduces the number of digital outputs required from your PLC. This, combined with the fact that data from the switchgear connected with SmartWire-DT will be processed in your PLC, ensures that operating states such as impending overloads will be detected and signaled with the signal towers immediately. The result? A marked increase in your systems' availability.

SL4/SL7



**5.0 Signal towers**

**5.1 System overview**

SL4 – System . . . . . 150

**5.2 Product selection**

SL4 – Complete devices, light modules . . . . . 152  
 SL4 – Light modules . . . . . 153  
 SL4 – Light modules, acoustic modules . . . . . 155  
 SL4 – Base modules . . . . . 156  
 SL4 – Base modules, accessories . . . . . 157

**5.3 System overview**

SL7 – System . . . . . 158

**5.4 Product selection**

SL7 – Complete devices, light modules . . . . . 160  
 SL7 – Light modules . . . . . 161  
 SL7 – Acoustic modules . . . . . 164  
 SL7 – Base modules . . . . . 165  
 SL7 – Base modules, accessories . . . . . 166

**5.5 Technical data**

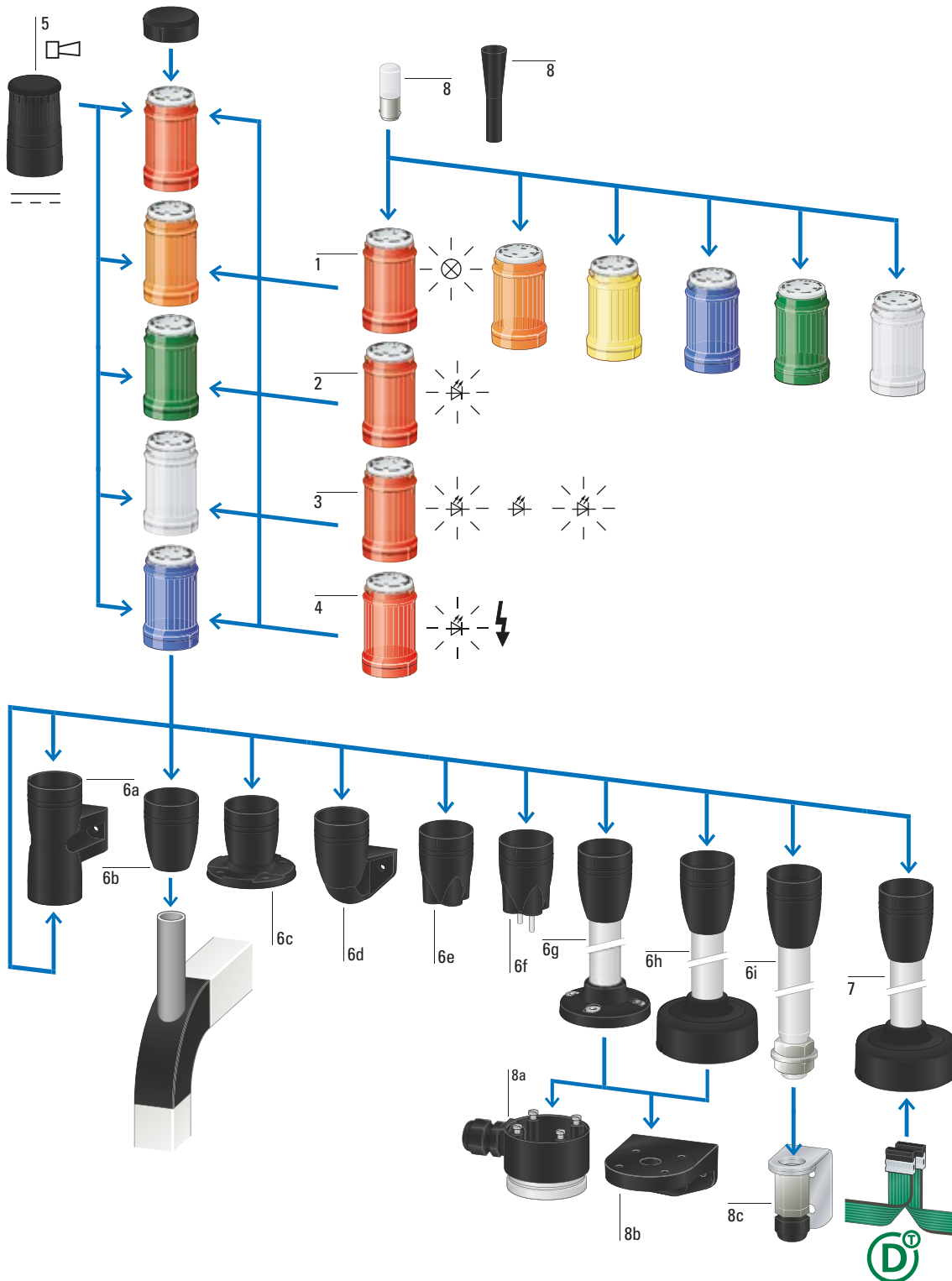
SL4 – Technical data . . . . . 167  
 SL7 – Technical data . . . . . 169

**5.6 Dimensions**

SL4 – Dimensions . . . . . 171  
 SL7 – Dimensions . . . . . 175

### System overview

5













<p><b>Module for filament lamp, continuous light</b> 1</p> <hr/> <p>Without light element (filament lamp with BA15d socket)</p> <hr/> <p>Easy mounting with bayonet mount</p> <hr/> <p>Modules can be arranged in any order</p> <hr/> <p>Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)</p> <hr/> <p>Degree of protection IP66</p> <hr/> <p>Operating mode: 100% DF (duty factor)</p> <hr/> <p>→ Page 155</p>	<p><b>Acoustic module</b> 5</p> <hr/> <p>Continuous tone or pulsed tone - adjustable with internal dip switches</p> <hr/> <p>Sound pressure 80 dB, frequency 4000 Hz</p> <hr/> <p>Easy mounting with bayonet mount</p> <hr/> <p>Set up as topmost module</p> <hr/> <p>Max. 2 x 1 module that can be actuated individually (two with base module SL7-CB-D only)</p> <hr/> <p>Degree of protection IP66</p> <hr/> <p>Permanently integrated cover plate</p> <hr/> <p>Operating mode: 100% DF (duty factor)</p> <hr/> <p>→ Page 155</p>	<p><b>Base module with base adapter for slipping onto place (rapid mounting and wiring system)</b> 6h</p> <hr/> <p>Aluminium tube 100 mm, 250 mm or 400 mm</p> <hr/> <p>→ Page 156</p>
<p><b>Module with LED, continuous light</b> 2</p> <hr/> <p>Easy mounting with bayonet mount</p> <hr/> <p>Modules can be arranged in any order</p> <hr/> <p>Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)</p> <hr/> <p>Degree of protection IP66</p> <hr/> <p>Operating mode: 100% DF (duty factor)</p> <hr/> <p>→ Page 152</p>	<p><b>Base module for mounting on both sides</b> 6a</p> <hr/> <p>Easy mounting with bayonet mount</p> <hr/> <p>Degree of protection IP66</p> <hr/> <p>With cover plate</p> <hr/> <p>With Push in terminals</p> <hr/> <p>→ Page 157</p>	<p><b>Base module with aluminum tube and screw fixing</b> 6h</p> <hr/> <p>Aluminium tube 100 mm, 250 mm or 400 mm</p> <hr/> <p>→ Page 156</p>
<p><b>Module with LED, flashing light</b> 3</p> <hr/> <p>Easy mounting with bayonet mount</p> <hr/> <p>Modules can be arranged in any order</p> <hr/> <p>Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)</p> <hr/> <p>Degree of protection IP66</p> <hr/> <p>Operating mode: 100% DF (duty factor)</p> <hr/> <p>Flashing frequency 2 Hz</p> <hr/> <p>→ Page 153</p>	<p><b>Base module can hold tubes</b> 6b</p> <hr/> <p>→ Page 156</p>	<p><b>Base module with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection</b> 7</p> <hr/> <p>Aluminium tube 100 mm</p> <hr/> <p>→ Page 156</p>
<p><b>Module with LED, strobe light</b> 4</p> <hr/> <p>With a fixed flashing frequency 1.4 Hz</p> <hr/> <p>With LED for effective signaling effect with various flashing sequences (flashing frequency 1 - 2.6 Hz)</p> <hr/> <p>Easy mounting with bayonet mount</p> <hr/> <p>Modules can be arranged in any order</p> <hr/> <p>Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)</p> <hr/> <p>Degree of protection IP66</p> <hr/> <p>Operating mode: 100% DF (duty factor)</p> <hr/> <p>→ Page 154</p>	<p><b>Base module with external fixing holes</b> 6c</p> <hr/> <p>→ Page 156</p>	<p><b>Magnetic base including M20 cable gland</b> 8a</p> <hr/> <p>For vertical mounting</p> <hr/> <p>→ Page 157</p>
	<p><b>Base module one-sided with bracket</b> 6d</p> <hr/> <p>→ Page 157</p>	<p><b>Mounting bracket</b> 8b</p> <hr/> <p>For vertical mounting</p> <hr/> <p>→ Page 157</p>
	<p><b>Base module with internal (on the inside) fixing holes</b> 6e</p> <hr/> <p>→ Page 156</p>	<p><b>Accessories</b> 8c</p> <hr/> <p>Tool for replacing filament lamp</p> <hr/> <p>Filament lamp</p> <hr/> <p>→ Page 157</p>
	<p><b>Base module with built-in (pre-assembled) fixing screws</b> 6f</p> <hr/> <p>→ Page 156</p>	
	<p><b>Base module with aluminium tube and plastic foot</b> 6g</p> <hr/> <p>Aluminium tube 100 mm, 250 mm or 400 mm</p> <hr/> <p>→ Page 157</p>	




























#### Product selection









5

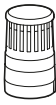





	Rated operational voltage $U_e$ V	Number of modules	Color	Function	Part no. Article no.	Std. pack
<b>Complete units</b>						
 <p>Continuous light LED IP66 Base module with foot and 100 mm spacer</p>	24 V AC/DC	2			<b>SL4-100-L-RG-24LED</b> 171295	1 off
		3			<b>SL4-100-L-RYG-24LED</b> 171296	
<b>Module with LED</b>						
 <p>Continuous light IP66</p>	24 V AC/DC				<b>SL4-L24-B</b> 171313	1 off
					<b>SL4-L24-G</b> 171314	
					<b>SL4-L24-R</b> 171315	
					<b>SL4-L24-W</b> 171316	
					<b>SL4-L24-Y</b> 171317	
					<b>SL4-L24-A</b> 171318	
	110/120 V AC			<b>SL4-L120-B</b> 171319		
				<b>SL4-L120-G</b> 171320		
				<b>SL4-L120-R</b> 171321		
				<b>SL4-L120-W</b> 171322		
				<b>SL4-L120-Y</b> 171323		
				<b>SL4-L120-A</b> 171324		
230/240 V AC				<b>SL4-L230-B</b> 171325		
				<b>SL4-L230-G</b> 171326		
				<b>SL4-L230-R</b> 171327		
				<b>SL4-L230-W</b> 171328		
				<b>SL4-L230-Y</b> 171329		
				<b>SL4-L230-A</b> 171330		

	Rated operating voltage $U_e$ V	Color	Function	Part no. Article no.	Std. pack
	<b>Module with LED</b>				
	24 V AC/DC		  	<b>SL4-BL24-B</b> 171337	1 off
				<b>SL4-BL24-G</b> 171338	
				<b>SL4-BL24-R</b> 171339	
				<b>SL4-BL24-W</b> 171340	
				<b>SL4-BL24-Y</b> 171341	
				<b>SL4-BL24-A</b> 171342	
	110/120 V AC		<b>SL4-BL120-B</b> 171343		
			<b>SL4-BL120-G</b> 171344		
			<b>SL4-BL120-R</b> 171345		
			<b>SL4-BL120-W</b> 171346		
			<b>SL4-BL120-Y</b> 171347		
			<b>SL4-BL120-A</b> 171348		
	230/240 V AC		<b>SL4-BL230-B</b> 171349		
			<b>SL4-BL230-G</b> 171350		
			<b>SL4-BL230-R</b> 171351		
			<b>SL4-BL230-W</b> 171352		
			<b>SL4-BL230-Y</b> 171353		
			<b>SL4-BL230-A</b> 171354		

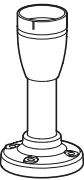
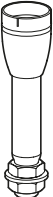




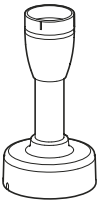
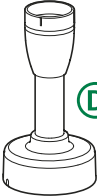
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

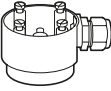
	Rated operating voltage $U_e$ V	Color	Function	Part no. Article no.	Std. pack	
<b>Module with LED</b>						
	24 V AC/DC			<b>SL4-FL24-B</b>	1 off	
		171355				
				<b>SL4-FL24-G</b>		171356
				<b>SL4-FL24-R</b>		171357
				<b>SL4-FL24-W</b>		171358
				<b>SL4-FL24-Y</b>		171359
	110/120 V AC		<b>SL4-FL24-A</b>	171360		
			<b>SL4-FL120-B</b>	171361		
			<b>SL4-FL120-G</b>	171362		
			<b>SL4-FL120-R</b>	171363		
			<b>SL4-FL120-W</b>	171364		
			<b>SL4-FL120-Y</b>	171365		
	230/240 V AC		<b>SL4-FL120-A</b>	171366		
			<b>SL4-FL230-B</b>	171367		
			<b>SL4-FL230-G</b>	171368		
			<b>SL4-FL230-R</b>	171369		
			<b>SL4-FL230-W</b>	171370		
			<b>SL4-FL230-Y</b>	171371		
		24 V AC/DC			<b>SL4-FL230-A</b>	1 off
			171372			
					<b>SL4-FL24-B-M</b>	
			<b>SL4-FL24-G-M</b>		171374	
			<b>SL4-FL24-R-M</b>		171375	
			<b>SL4-FL24-W-M</b>		171376	
			<b>SL4-FL24-Y-M</b>		171377	
			<b>SL4-FL24-A-M</b>		171378	


	Rated operating voltage $U_e$ V	Color	Function	Part no. Article no.	Std. pack
 <p><b>Module for filament lamp</b> Continuous light IP66 Without lamp Filament lamp max. 4 W Filament lamp → Page 157</p>	< 250 V AC/DC			<b>SL4-L-B</b> 171331	1 off
				<b>SL4-L-G</b> 171332	
				<b>SL4-L-R</b> 171333	
				<b>SL4-L-W</b> 171334	
				<b>SL4-L-Y</b> 171335	
				<b>SL4-L-A</b> 171336	

	Rated operating voltage $U_e$ V	Rated operational current $I_e$ mA	Color	Function	Type of tone	Part no. Article no.	Std. pack
 <p><b>Acoustic modules</b> Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 80 db, adjustable with internal potentiometer f = 4000 Hz Place only at the highest position on a pillar IP66</p>	24 V AC/DC	Max. 39				<b>SL4-AP24</b> 171379	1 off
	110/120 V AC	Max. 21				<b>SL4-AP120</b> 171380	
	230/240 V AC	Max. 21				<b>SL4-AP230</b> 171381	

	Rated operating voltage $U_e$ V	Rated operational current $I_e$ mA	Color	Function	Type of tone	Part no. Article no.	Std. pack
 <p><b>Customized complete unit</b> Order please enquire</p>	-	-	-	-	-	<b>SL4-COMBINATION</b> 2011956	1 off

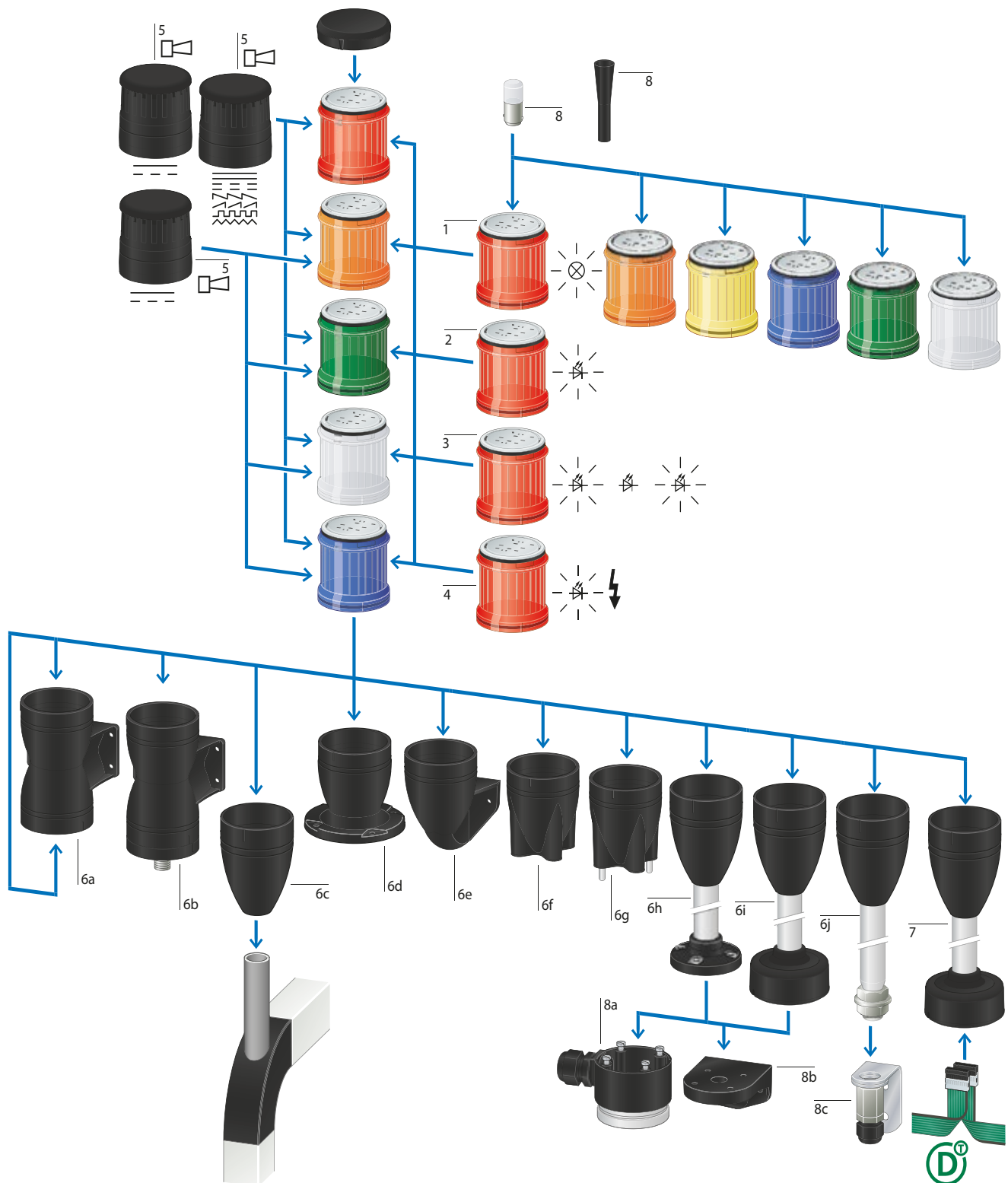
	Tube length	Color	For use with	Part no. Article no.	Std. pack	
<b>Base modules</b>						
For horizontal mounting including cover max. 5 modules						
	Base with aluminium tube and plastic foot Push in terminals	100 mm	Black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	<b>SL4-PIB-100</b> 171297	1 off
		250 mm	Aluminum color tube		<b>SL4-PIB-250</b> 171298	
		400 mm			<b>SL4-PIB-400</b> 171299	
		800 mm			<b>SL4-PIB-800</b> 177313	
	Base with aluminum tube and banjo bolt Push in terminals	100 mm			<b>SL4-PIB-T-100</b> 171305	
		250 mm			<b>SL4-PIB-T-250</b> 171306	
		400 mm			<b>SL4-PIB-T-400</b> 171307	
		800 mm			<b>SL4-PIB-T-800</b> 178461	
	Base with external fixing holes Push in terminals	–	Black		<b>SL4-PIB-EMH</b> 171302	
	Base with internal (on the inside) fixing holes Push in terminals	–			<b>SL4-PIB-IMH</b> 171300	
	Base with built-in (pre-assembled) fixing screws Push in terminals	–			<b>SL4-PIB-IMS</b> 171301	
	Base: Can hold tubes with a diameter of 25 mm (±0.5) for wall thickness 2 - 3.4 mm	–			<b>SL4-PIB-TM</b> 179986	
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Screw terminals	100 mm	Black		<b>SL4-FMS-100</b> 171308	
		250 mm	Aluminum color tube		<b>SL4-FMS-250</b> 171309	
		400 mm			<b>SL4-FMS-400</b> 171310	
		800 mm			<b>SL4-FMS-800</b> 178463	
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Parameterizable with SWD-Assist (planning and ordering help)	100 mm			<b>SL4-SWD</b> 171311	

	Color	For use with	Part no. Article no.	Std. pack
<b>Base modules</b>				
				
For vertical mounting including cover				
One-sided base with bracket Push in terminals max. 5 modules	Black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	<b>SL4-PIB-FW</b> 171303	1 off
				
For vertical mounting on both sides including cover				
Base with external fixing holes Push in terminals max. 2 x 5 modules	Black	SL4-L-... SL4-BL-... SL4-FL-... SL4-AP-...	<b>SL4-PIB-D</b> 171304	1 off
<b>Mounting bracket</b>				
				
For vertical mounting, insulated material				
–	–	SL4-PIB-... SL7-CB-...	<b>SL7/4-FW</b> 171446	1 off
<b>Including mounting bracket M20 cable gland</b>				
				
For vertical mounting, metal				
–	–	SL4-PIB-T-... SL7-CB-T-...	<b>SL7/4-FW-T</b> 171455	1 off
<b>Tool for replacing filament lamp</b>				
				
–	–	SL4-L-... SL7-L-...	<b>SL7/4-BET</b> 171294	1 off
<b>Magnetic base including M20 cable gland</b>				
				
For vertical mounting, insulated material				
–		SL4-PIB-100(250)(400) SL7-CB-100(250)(400)	<b>SL7/4-MMS</b> 172954	1 off

Lifespan	Rated operating voltage $U_e$	Power	For use with	Part no. Article no.	Std. pack
<b>Filament lamp</b>					
					
Ba 15d socket					
> 3000 h	12 V	4 W	SL4-L-...	<b>SL4-L12</b> 171382	1 off
	24 V			<b>SL4-L24</b> 171383	
	120 V			<b>SL4-L120</b> 171384	
	230 V			<b>SL4-L230</b> 171385	

#### System overview

5





**Module for filament lamp, continuous light 1**

Without light element (filament lamp with BA15d socket)  
 Easy mounting with bayonet mount  
 Modules can be arranged in any order  
 Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)  
 Degree of protection IP66  
 Operating mode: 100% DF (duty factor)  
 → Page 163

**Module with LED, continuous light 2**

Easy mounting with bayonet mount  
 Modules can be arranged in any order  
 Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)  
 Degree of protection IP66  
 Operating mode: 100% DF (duty factor)  
 → Page 163

**Module with LED, flashing light 3**

Easy mounting with bayonet mount  
 Modules can be arranged in any order  
 Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)  
 Degree of protection IP66  
 Operating mode: 100% DF (duty factor)  
 Flashing frequency 2 Hz  
 → Page 161

**Module with LED, strobe light 4**

With a fixed flashing frequency 1.4 Hz  
 With LED for effective signaling effect with various flashing sequences (flashing frequency 1 - 2.6 Hz)  
 Easy mounting with bayonet mount  
 Modules can be arranged in any order  
 Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)  
 Degree of protection IP66  
 Operating mode: 100% DF (duty factor)  
 → Page 162

**Acoustic module 5**

Easy mounting with bayonet mount  
 Set up as topmost module  
 Max. 2 x 1 module that can be actuated individually (two with base module SL7-CB-D only)  
 Degree of protection IP66  
 Permanently integrated cover plate  
 Operating mode: 100% DF (duty factor)  
 Sound pressure 80 dB, frequency 4000 Hz  
 → Page 164

**Acoustic module 5a**

Continuous tone or pulsed tone - adjustable with internal dip switches  
 Frequency: 2800 Hz  
 → Page 164

**Acoustic module 5b**

Multi-tone (8 tones) - adjustable with internal dip switch  
 Frequency 500 - 2700 Hz  
 → Page 164

**Acoustic module 5b**

Continuous tone or pulsed tone - can be actuated externally; takes up 2 inputs (2 modules)  
 Frequency: 2800 Hz  
 → Page 164

**Base module for mounting on both sides 6a**

Easy mounting with bayonet mount  
 Degree of protection IP66  
 With cover plate  
 With Push in terminals  
 → Page 166

**Base module for vertical mounting on one sides 6b**

Plug-in connection M22  
 → Eaton Online Catalog

**Base module can hold tubes 6c**

→ Page 165

**Base module with external fixing holes 6d**

→ Page 165

**Base module one-sided with bracket 6e**

→ Page 166

**Base module with internal (on the inside) fixing holes 6f**

→ Page 165

**Base module with built-in (pre-assembled) fixing screws 6g**

→ Page 165

**Base module with aluminium tube and plastic foot 6h**

Aluminium tube 100 mm, 250 mm or 400 mm  
 → Page 165

**Base module with base adapter for slipping onto place (rapid mounting and wiring system) 6i**

Aluminium tube 100 mm, 250 mm or 400 mm  
 → Page 165

**Base module with aluminum tube and screw fixing 6j**

Aluminium tube 100 mm, 250 mm or 400 mm  
 → Page 165

**Base module with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection 7**

Aluminium tube 100 mm  
 → Page 165

**Accessories 8**

**Magnetic base including M20 cable gland 8a**

For vertical mounting  
 → Page 157

**Mounting bracket 8b**

























For vertical mounting  
 → Page 157

**Accessories 8c**

Tool for replacing filament lamp  
 Filament lamp  
 → Page 157

#### Product selection































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	Rated operating voltage $U_e$ V	Number of modules	Color	Function	Part no. Article no.	Std. pack	
<b>Complete units</b>							
 <p>Continuous light LED IP66 Base module with foot and 100 mm spacer</p>	24 V AC/DC	2			<b>SL7-100-L-RG-24LED</b> 171424	1 off	
		3			<b>SL7-100-L-RYG-24LED</b> 171425		
<b>Module with LED</b>							
 <p>Continuous light IP66</p>	24 V AC/DC				<b>SL7-L24-B</b> 171461	1 off	
					<b>SL7-L24-G</b> 171462		
					<b>SL7-L24-R</b> 171463		
					<b>SL7-L24-W</b> 171464		
					<b>SL7-L24-Y</b> 171465		
					<b>SL7-L24-A</b> 171466		
		110/120 V AC					<b>SL7-L120-B</b> 171467
							<b>SL7-L120-G</b> 171468
							<b>SL7-L120-R</b> 171469
				<b>SL7-L120-W</b> 171470			
				<b>SL7-L120-Y</b> 171471			
				<b>SL7-L120-A</b> 171472			
	230/240 V AC				<b>SL7-L230-B</b> 171473		
					<b>SL7-L230-G</b> 171474		
					<b>SL7-L230-R</b> 171475		
				<b>SL7-L230-W</b> 171476			
				<b>SL7-L230-Y</b> 171477			
				<b>SL7-L230-A</b> 171426			

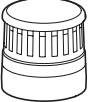


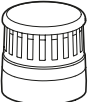


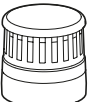


	Rated operating voltage $U_e$ V	Color	Function	Part no. Article no.	Std. pack
 <p><b>Module with LED</b> Flashing light IP66 2 Hz</p>	24 V AC/DC		 	<b>SL7-BL24-B</b> 171439	1 off
				<b>SL7-BL24-G</b> 171440	
				<b>SL7-BL24-R</b> 171441	
				<b>SL7-BL24-W</b> 171442	
				<b>SL7-BL24-Y</b> 171388	
				<b>SL7-BL24-A</b> 171389	
	110/120 V AC		<b>SL7-BL120-B</b> 171390		
			<b>SL7-BL120-G</b> 171391		
			<b>SL7-BL120-R</b> 171392		
			<b>SL7-BL120-W</b> 171393		
			<b>SL7-BL120-Y</b> 171394		
			<b>SL7-BL120-A</b> 171395		
	230/240 V AC		<b>SL7-BL230-B</b> 171396		
			<b>SL7-BL230-G</b> 171397		
			<b>SL7-BL230-R</b> 171398		
			<b>SL7-BL230-W</b> 171399		
			<b>SL7-BL230-Y</b> 171400		
			<b>SL7-BL230-A</b> 171401		

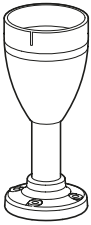
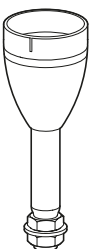
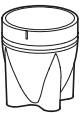
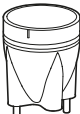

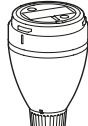
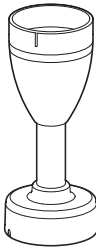
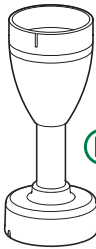


	Rated operating voltage $U_e$ V	Color	Function	Part no. Article no.	Std. pack
<b>Module with LED</b>					
Strobe light IP66 1.4 Hz	24 V AC/DC			<b>SL7-FL24-B</b> 171402	1 off
				<b>SL7-FL24-G</b> 171403	
				<b>SL7-FL24-R</b> 171404	
				<b>SL7-FL24-W</b> 171405	
				<b>SL7-FL24-Y</b> 171406	
				<b>SL7-FL24-A</b> 171407	
	110/120 V AC		<b>SL7-FL120-B</b> 171408		
			<b>SL7-FL120-G</b> 171409		
			<b>SL7-FL120-R</b> 171410		
			<b>SL7-FL120-W</b> 171411		
			<b>SL7-FL120-Y</b> 171412		
			<b>SL7-FL120-A</b> 171413		
	230/240 V AC		<b>SL7-FL230-B</b> 171414		
			<b>SL7-FL230-G</b> 171415		
			<b>SL7-FL230-R</b> 171416		
			<b>SL7-FL230-W</b> 171417		
			<b>SL7-FL230-Y</b> 171418		
			<b>SL7-FL230-A</b> 171419		

	Rated operating voltage $U_e$ V	Color	Function	Part no. Article no.	Std. pack	
	<b>Module with high power LED</b>					
	Continuous light IP66 High-performance LED for maximum signaling effect High Performance LED	24 V AC/DC			<b>SL7-L24-B-HP</b> 171427	1 off
					<b>SL7-L24-G-HP</b> 171428	
					<b>SL7-L24-R-HP</b> 171429	
					<b>SL7-L24-W-HP</b> 171430	
					<b>SL7-L24-Y-HP</b> 171431	
					<b>SL7-L24-A-HP</b> 171432	
	Strobe light IP66 High-performance LED for maximum signaling effect High Performance LED 1.4 Hz	24 V AC/DC			<b>SL7-FL24-B-HP</b> 171420	
					<b>SL7-FL24-G-HP</b> 171421	
					<b>SL7-FL24-R-HP</b> 171422	
					<b>SL7-FL24-W-HP</b> 171423	
					<b>SL7-FL24-Y-HP</b> 171273	
					<b>SL7-FL24-A-HP</b> 171274	
	Multistrobe light IP66 High-performance LED for maximum signaling effect High Performance LED 1 - 2.6 Hz	24 V AC/DC			<b>SL7-FL24-B-HPM</b> 171275	
					<b>SL7-FL24-G-HPM</b> 171276	
					<b>SL7-FL24-R-HPM</b> 171277	
					<b>SL7-FL24-W-HPM</b> 171278	
					<b>SL7-FL24-Y-HPM</b> 171279	
			<b>SL7-FL24-A-HPM</b> 171280			
	<b>Module for filament lamp</b>					
	Continuous light IP66 Without lamp Filament lamp max. 7 W Filament lamp → Page 166	< 250 V AC/DC			<b>SL7-L-B</b> 171433	1 off
					<b>SL7-L-G</b> 171434	
					<b>SL7-L-R</b> 171435	
					<b>SL7-L-W</b> 171436	
					<b>SL7-L-Y</b> 171437	
					<b>SL7-L-A</b> 171438	

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Rated operating voltage $U_e$ V	Rated operational current $I_e$ mA	Color	Function	Type of tone	Part no. Article no.	Std. pack
<b>Acoustic modules</b>						
 <p>Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 100 db, adjustable with internal potentiometer <math>f = 2800</math> Hz Place only at the highest position on a pillar IP66</p>						
24 V AC/DC	Max. 92	■			<b>SL7-AP24</b> 171281	1 off
110/120 V AC	Max. 41	■			<b>SL7-AP120</b> 171282	
230/240 V AC	Max. 43	■			<b>SL7-AP230</b> 171283	
 <p>Continuous tone or pulsed tone, external actuation. Assigned two inputs (2 modules). Sound pressure 100 db, adjustable with internal potentiometer <math>f = 2800</math> Hz Place only at the highest position on a pillar IP66</p>						
24 V AC/DC	Max. 92	■			<b>SL7-AP24-E</b> 171284	1 off
110/120 V AC	Max. 41	■			<b>SL7-AP120-E</b> 171285	
230/240 V AC	Max. 43	■			<b>SL7-AP230-E</b> 171286	
 <p>Multi-tone; 8 tones, adjustable with internal dip switch. Sound pressure 100 db, adjustable with internal potentiometer <math>f = 500 - 2700</math> Hz Place only at the highest position on a pillar IP66</p>						
24 V AC/DC	Max. 115	■			<b>SL7-AP24-M</b> 171287	1 off
110/120 V AC	Max. 45	■			<b>SL7-AP120-M</b> 171288	
230/240 V AC	Max. 43	■			<b>SL7-AP230-M</b> 171289	
<b>Customized complete unit</b>						
Order please enquire						
-	-	-	-	-	<b>SL7-COMBINATION</b> 2011955	1 off

	Tube length	Color	For use with	Part no. Article no.	Std. pack
<b>Base modules</b>					
For horizontal mounting including cover max. 5 modules					
	100 mm	Black Aluminum color tube	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	<b>SL7-CB-100</b> 171443	1 off
	250 mm			<b>SL7-CB-250</b> 171444	
	400 mm			<b>SL7-CB-400</b> 171445	
	800 mm			<b>SL7-CB-800</b> 177312	
	100 mm			<b>SL7-CB-T-100</b> 171452	
	250 mm			<b>SL7-CB-T-250</b> 171453	
	400 mm			<b>SL7-CB-T-400</b> 171454	
	800 mm			<b>SL7-CB-T-800</b> 178460	
	–	Black		<b>SL7-CB-IMH</b> 171447	
	–			<b>SL7-CB-IMS</b> 171448	
	–			<b>SL7-CB-EMH</b> 171449	
	–			<b>SL7-CB-TM</b> 179987	
	100 mm	Black Aluminum color tube		<b>SL7-FMS-100</b> 171456	
	250 mm			<b>SL7-FMS-250</b> 171457	
	400 mm			<b>SL7-FMS-400</b> 171458	
	800 mm			<b>SL7-FMS-800</b> 178462	
	100 mm			<b>SL7-SWD</b> 171459	
Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Parameterizable with SWD-Assist (planning and ordering help)					




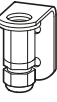

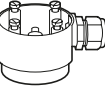

# 5.4

## Signal towers

Moeller series

### SL7 – Base modules, accessories

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	Color	For use with	Part no. Article no.	Std. pack		
<b>Base modules</b>						
For vertical mounting, with cover, max. 5 modules						
	Black	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	<b>SL7-CB-FW</b> 171450	1 off		
For vertical mounting on both sides, with cover, max. 2 x 5 modules						
	Black	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	<b>SL7-CB-D</b> 171451	1 off		
<b>Mounting bracket</b>						
For vertical mounting, insulated material						
	–	SL4-PIB-... SL7-CB-...	<b>SL7/4-FW</b> 171446	1 off		
<b>Including mounting bracket M20 cable gland</b>						
For vertical mounting, metal						
	–	SL4-PIB-T-... SL7-CB-T-...	<b>SL7/4-FW-T</b> 171455	1 off		
<b>Tool for replacing filament lamp</b>						
–						
	–	SL4-L-... SL7-L-...	<b>SL7/4-BET</b> 171294	1 off		
<b>Magnetic base including M20 cable gland</b>						
For vertical mounting, insulated material						
	–	SL4-PIB-100(250)(400) SL7-CB-100(250)(400)	<b>SL7/4-MMS</b> 172954	1 off		
Lifespan	Rated operating voltage $U_e$	Power	For use with	Part no. Article no.	Std. pack	
<b>Filament lamp</b>						
Ba 15d socket						
	> 3000 h	12 V	5 W	SL7-L-...	<b>SL7-L12</b> 171290	1 off
		24 V	6.5 W		<b>SL7-L24</b> 171291	
		120 V	7 W		<b>SL7-L120</b> 171292	
		230 V	6.5 W		<b>SL7-L230</b> 171293	



Technical data

SL4-...

General	
Standards	IEC/EN 60947-5-1, UL508
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position	any
Mechanical shock resistance	g > 15 according to IEC 60068-2-27 Shock duration 11 ms Half sinus
IEC degree of protection	IP66 IEC/EN 60529
Degree of protection UL	Type 4, 4X, 13
Material	Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Color of lamp hood	blue, green, red, clear, yellow, orange, amber
Ambient air temperature	°C -30 - +60
Number of signal elements	Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacities	
Solid/flexible	mm <sup>2</sup> 0.2 - 1.5
Solid/flexible, with ferrule	mm <sup>2</sup> 0.25 - 1.5
Flexible with ferrule with plastic collar	mm <sup>2</sup> 0.25 - 0.75
AWG 24 - AWG 16	
Contacts	
Rated impulse withstand voltage	$U_{imp}$ V AC 4000
Rated insulation voltage	$U_i$ V 250
Overvoltage category/degree of pollution	III/3

5

	SL4-L...-...	SL4-BL...-...	SL4-FL...-...	SL4-FL24...-M	SL4-L...
<b>Light modules</b>					
Type of light	Continuous light	Flashing light	Strobe light	Multistrobe light	Continuous light
Lamp	LED				Filament lamp max. 4 W
Lamp holder	–	–	–	–	Ba15d
Flashing/strobe frequency	–	2 Hz	1.4 Hz	1 - 2.6 Hz	–
Transmission angle	360°				
Leakage current	A < 0.003				
Current/power consumption					
24 V AC/DC	A 0.022 - 0.033	0.028 - 0.036	0.035 - 0.065	0.048 - 0.068	–
110/120 V AC	A 0.030	0.030	0.10	–	–
230/240 V AC	A 0.030	0.030	0.10	–	–
Power consumption	–	–	–	–	Max. 4 W with the specified voltages
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			24 V AC/DC ± 10 %	up to 250 V AC/DC
Lifespan	h > 100000				
Weight	g 45				

SL4-AP...

**Acoustic modules**

Type of tone	Continuous or pulsed tone	
Types of sound	2 versions, → table of sound types	
Sound setting	built-in, 1 pole DIP	
Sound pressure	dB	80
Sound pressure level adjustment	-	
Sound pressure can be lowered to a minimum of	-	
Transmission angle	360°	
Current/power consumption		
24 V AC/DC	A	0.039
110/120 V AC	A	0.021
230/240 V AC	A	0.021
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %	
Weight	g	43

5

	Type of tone	Frequency Hz	Plot	Repeat rate	Special application	Max. volume dB
<b>Table of sound types</b>						
SL4-AP..	Continuous tone	approx. 4000	_____	–	–	80
	Pulse tone	approx. 4000	— — — — —	approx. 2 Hz	–	80

SL7-...

General	
Standards	IEC/EN 60947-5-1, UL508
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position	any
Mechanical shock resistance	g > 15 according to IEC 60068-2-27 Shock duration 11 ms Half sinus
IEC degree of protection	IP66 IEC/EN 60529
Degree of protection UL	Type 4, 4X, 13
Material	Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Color of lamp hood	blue, green, red, clear, yellow, orange, amber
Ambient air temperature	°C -30 - +60
Number of signal elements	Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacities	
Solid/flexible	mm <sup>2</sup> 0.13 - 2.5
Flexible with ferrule with plastic collar	mm <sup>2</sup> 0.25 - 1.5
	AWG 24 - AWG 14
Contacts	
Rated impulse withstand voltage	U <sub>imp</sub> V AC 4000
Rated insulation voltage	U <sub>i</sub> V 250
Overvoltage category/degree of pollution	III/3

	SL7-L-...-...	SL7-BL-...-...	SL7-FL-...-...	SL7-L24-...-HP	SL7-FL24-...-HP	SL7-FL24-...-HPM	SL7-L-...
<b>Light modules</b>							
Type of light	Continuous light	Flashing light	Strobe light	Continuous light	Strobe light	Multistrobe light	Continuous light
Lamp	LED			High Performance LED			Filament lamp max. 7 W
Lamp holder	-	-	-	-	-	-	Ba15d
Flashing/strobe frequency	-	2 Hz	1.4 Hz	-	1.4 Hz	1 - 2.6 Hz	-
Transmission angle	360°						
Leakage current	A < 0.003						
Current/power consumption							
24 V AC/DC	A 0.049 - 0.054	0.058	0.130 - 0.135	0.170 - 0.200	0.260 - 0.265	0.260 - 0.265	-
110/120 V AC	A 0.028 - 0.031	0.028 - 0.030	0.010	-	-	-	-
230/240 V AC	A 0.027 - 0.028	0.030 - 0.031	0.010	-	-	-	-
Power consumption	-	-	-	-	-	-	Max. 7 W with the specified voltages
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			18-30 V DC/18-26 V AC			up to 250 V AC/DC
Lifespan	h > 100000			> 50000			> 3000
Weight	g 80						

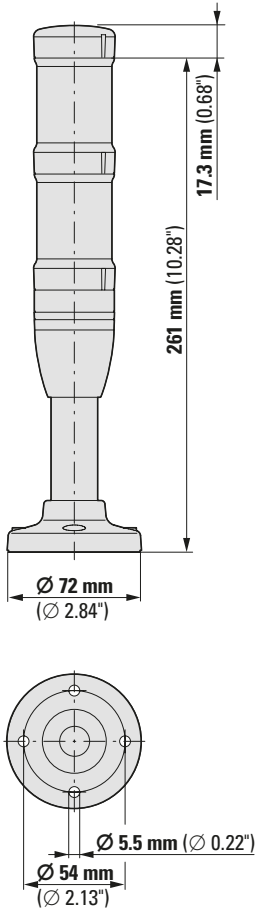
	SL7-AP...	SL7-AP...-E	SL7-AP...-M
<b>Acoustic modules</b>			
Type of tone	Continuous or pulsed tone		Continuous or pulsed tone 8 types of sound
Types of sound	2 versions, → table of sound types		8 versions, → table of sound types
Sound setting	Built-in, 1 pole DIP	Can be externally actuated	Built-in, 3 pole DIP
Sound pressure	dB	100	
Sound pressure level adjustment	Built-in, potentiometer		
Sound pressure can be lowered to a minimum of	88 dB		
Transmission angle	360°		
Current/power consumption			
24 V AC/DC	A	0.092	0.115
110/120 V AC	A	0.041	0.045
230/240 V AC	A	0.043	0.043
Voltage range	24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %		
Weight	g	102	

	Type of tone	Frequency Hz	Plot	Repeat rate	Special application	Max. volume dB
<b>Table of sound types</b>						
SL7-AP...	Continuous tone	approx. 2800		–	–	100
	Pulse tone	approx. 2800		approx. 2 Hz	–	100
SL7-AP...-E	Continuous tone	approx. 2800		–	–	100
	Pulse tone	approx. 2800		approx. 2 Hz	–	100
SL7-AP...-M	Continuous tone	2700		–	–	100
	Continuous tone	1350		–	–	100
	Pulse tone	2700		250 ms on, 250 ms off	–	100
	Pulse tone	1350		250 ms on, 250 ms off	–	100
	Falling	1200 - 500		1 Hz	Evacuation, Germany, DIN 3304-3	98
	Rising	500 - 1200		Rising 3 s, 0.5 s off	Netherlands NEN 2575:2000	98
	Alternating	800 - 1000		2 Hz	–	94
	Rising/falling	500 - 1500		10 Hz	–	94

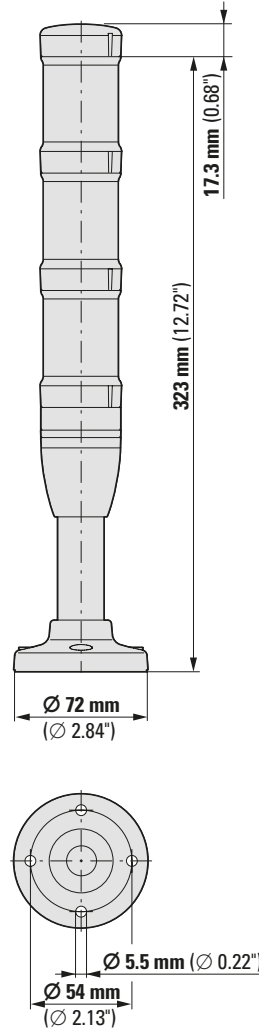
Dimensions

Complete units

SL4-100-L-RG-24LED



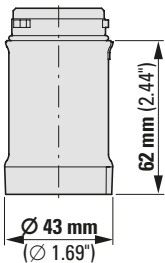
SL4-100-L-RYG-24LED



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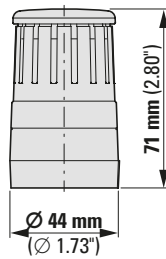
Light modules

SL4-(B)(F)L ...



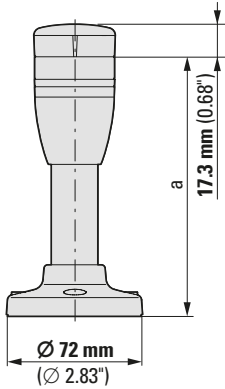
Acoustic modules

SL4-AP...

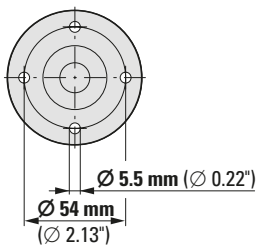


#### Base modules

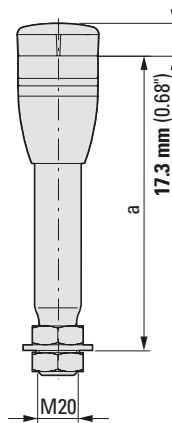
##### SL4-PIB-...



Part no.	a mm (inch)
SL4-PIB-100	136 (3.53)
SL4-PIB-250	286 (11.26)
SL4-PIB-400	436 (17.16)
SL4-PIB-800	836 (32.91)

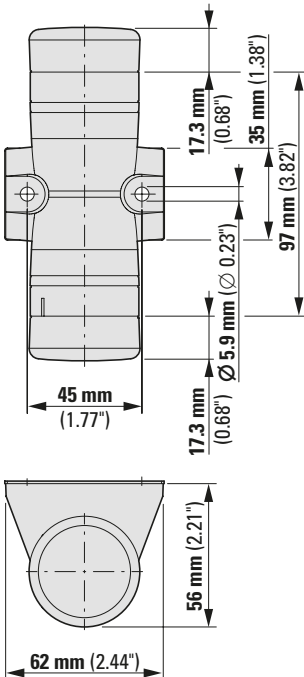


##### SL4-PIB-T-...

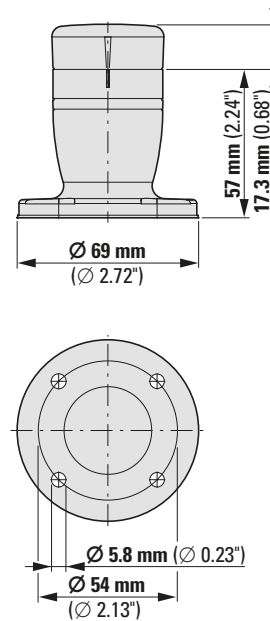


Part no.	a mm (inch)
SL4-PIB-T-100	150 (5.90)
SL4-PIB-T-250	300 (11.81)
SL4-PIB-T-400	450 (17.72)
SL4-PIB-T-800	850 (33.46)

##### SL4-PIB-D

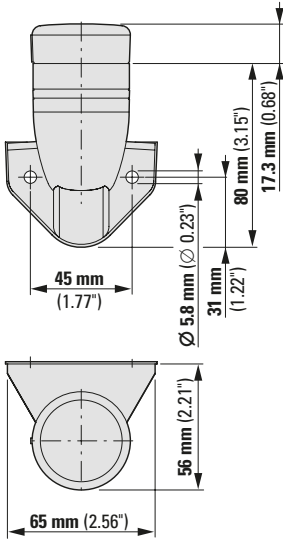


##### SL4-PIB-EMH

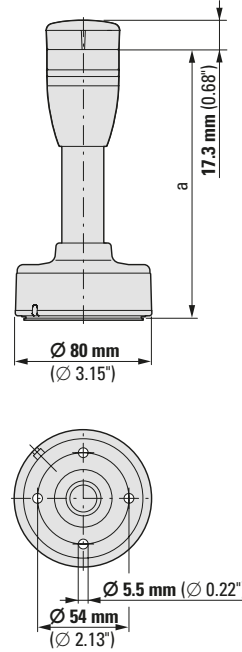


Base modules

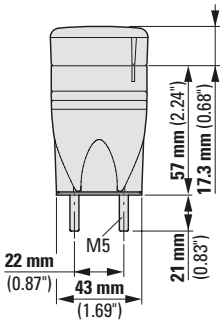
SL4-PIB-FW



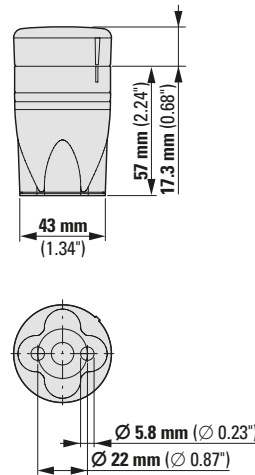
SL4-PIB-IMH



SL4-PIB-IMS

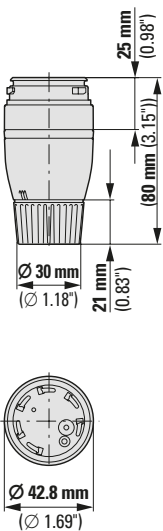


SL4-FMS-...



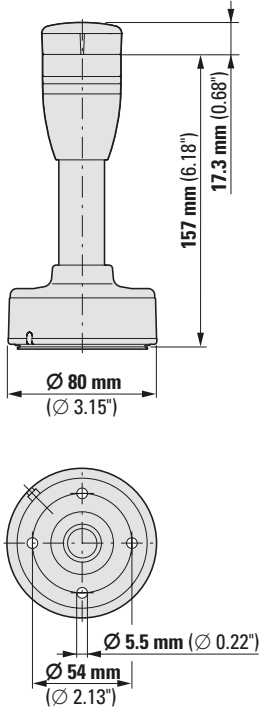
Part no.	a mm (inch)
SL4-FMS-100	157 (6.18)
SL4-FMS-250	307 (12.09)
SL4-FMS-400	457 (17.99)
SL4-FMS-800	857 (33.74)

SL4-PIB-TM



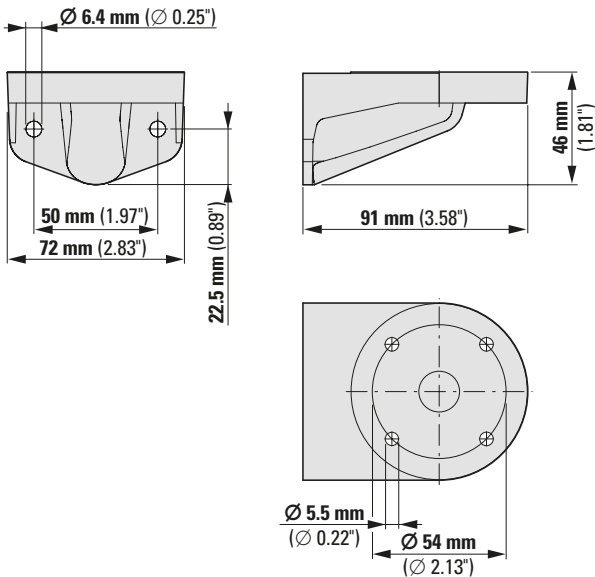
#### Base module for connecting to SmartWire-DT®

SL4-SWD

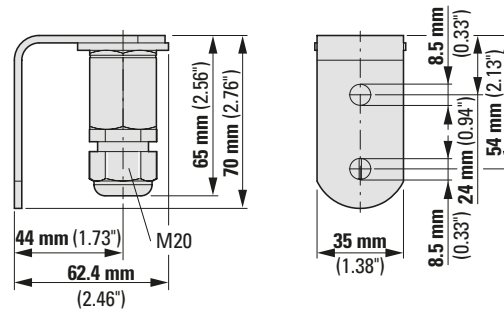


#### Mounting bracket

SL7/4-FW

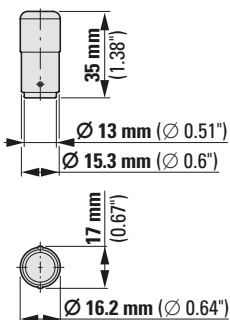


SL7/4-FW-T



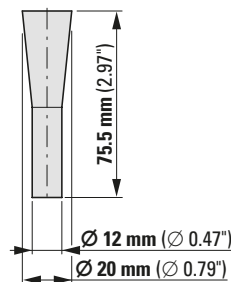
#### Filament lamp

SL4-L12(24)(120)(230)



#### Tool for replacing filament lamp

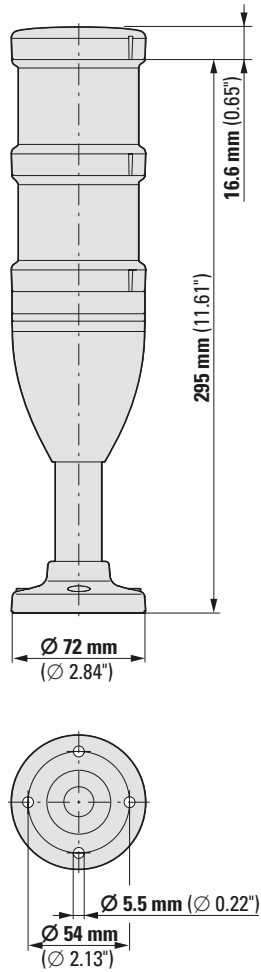
SL7/4-BET



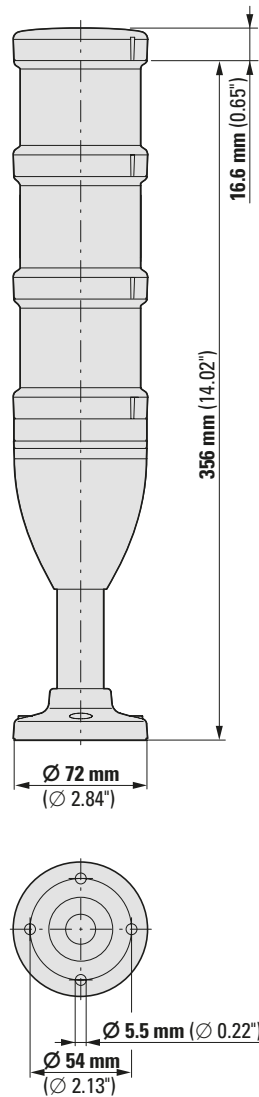


Complete units

SL7-100-L-RG-24LED



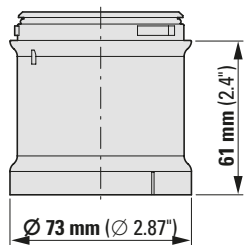
SL7-100-L-RYG-24LED



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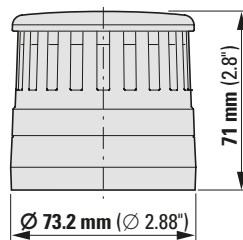
Light modules

SL7-(B)(F)L ...



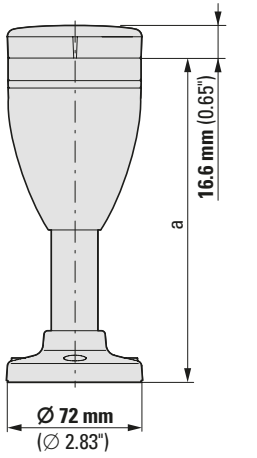
Acoustic modules

SL7-AP...

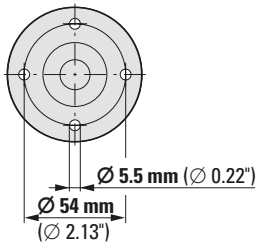


#### Base modules

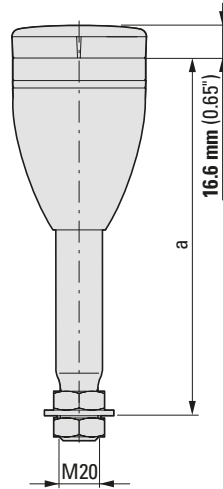
SL7-CB-...



Part no.	a mm (inch)
SL7-CB-100	171 (6.73)
SL7-CB-250	321 (12.64)
SL7-CB-400	471 (18.54)
SL7-CB-800	871 (34.29)



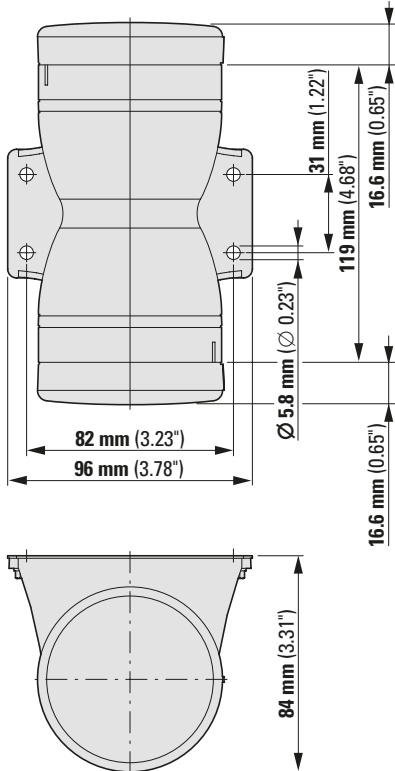
SL7-CB-T-...



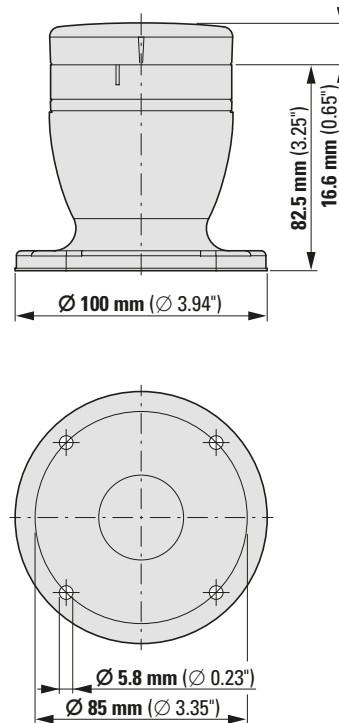
Part no.	a mm (inch)
SL7-CB-T-100	190 (7.48)
SL7-CB-T-250	340 (13.38)
SL7-CB-T-400	490 (19.29)
SL7-CB-T-800	890 (35.04)

5

SL7-CB-D

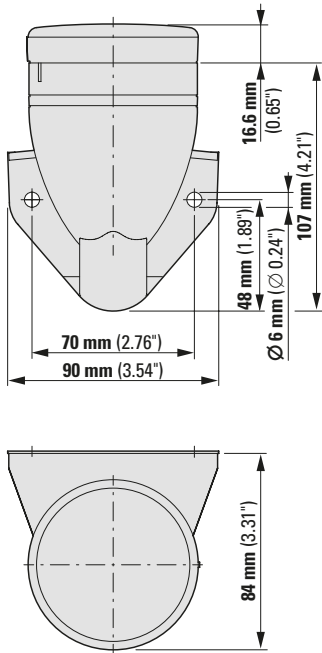


SL7-CB-EMH

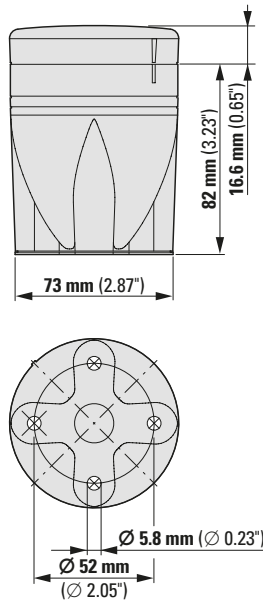


Base modules

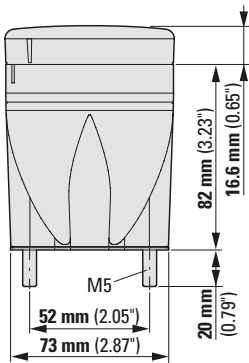
SL7-CB-FW



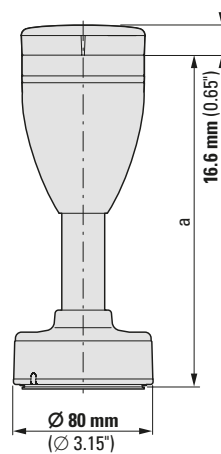
SL7-CB-IMH



SL7-CB-IMS

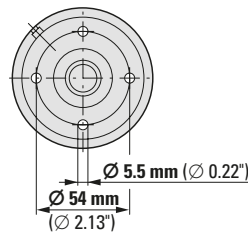
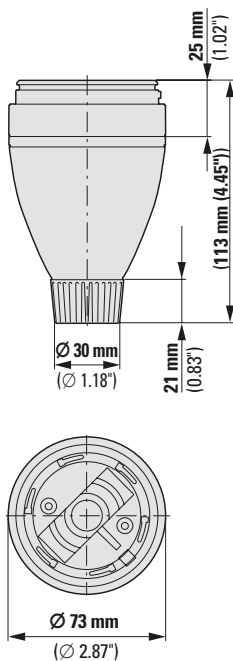


SL7-FMS-...



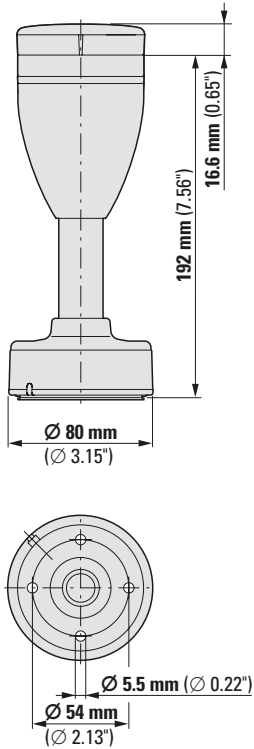
Part no.	a mm (inch)
SL7-FMS-100	192 (7.55)
SL7-FMS-250	342 (13.46)
SL7-FMS-400	492 (19.37)
SL7-FMS-800	892 (35.12)

SL7-CB-TM



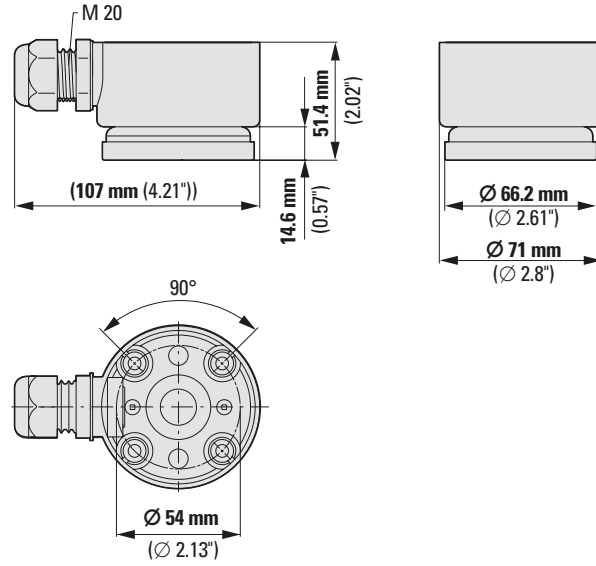
#### Base module for connecting to SmartWire-DT®

SL7-SWD



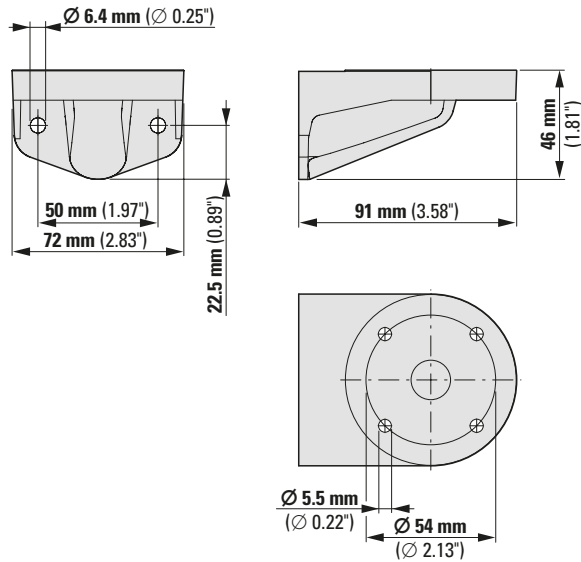
#### Magnetic base including M20 cable gland

SL7/4-MMS

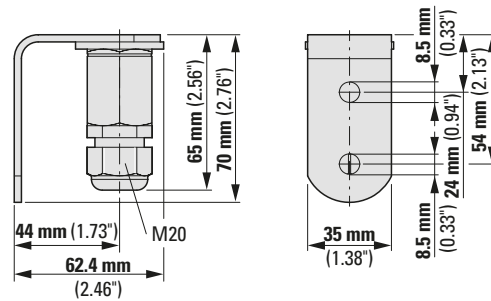


#### Mounting bracket

SL7/4-FW

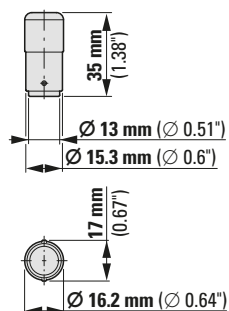


SL7/4-FW-T



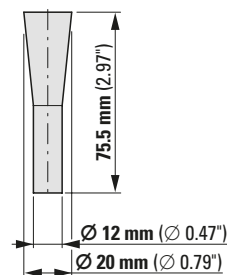
#### Filament lamp

SL7-L12(24)(120)(230)



#### Tool for replacing filament lamp

SL7/4-BET





# Build it in.



## The RMQ C22 Series: Powerful Functionality with a Compact Design



Download product range catalog „C22 compact portfolio“ [www.eaton.com](http://www.eaton.com)

RMQ C22 pilot devices are not only characterized by compact dimensions and a conventional screw connection, but also feature the same design that has made units such as our M22 modular pushbuttons stand the test of time. C22 devices are built as monolithic units with an “all-in-one” focus that combines contacts and lamps in a single housing.

In addition to a comprehensive selection of operators and selector switches, the C22 product portfolio also includes emergency stop buttons in a variety of versions, including lockable units.

C22 devices combine multiple components in a single device. This compact design means that only one article no. is required, making product selection and ordering much easier and faster. On top of this, these devices have an extremely long mechanical life and are suitable for worldwide use.

# Build it in.



## XV HMI/PLC: Easy and Convenient Operation for a Rapidly Changing World



Eaton's XV HMI PLC touch panels comprise a range of products that has been fine-tuned to perfection and can be seamlessly integrated into a variety of performance classes. Capacitive, resistive, and infrared touch technology devices are available in display sizes ranging from 3.5" to 15" with a plastic, metal, or stainless steel housing. Moreover, an on-board SmartWire-DT master interface makes it possible to achieve significant savings all the way from the hardware planning stage through commissioning.

With its multi-touch display HMI PLC units, the XV300 series has opened a whole new world of intuitive and convenient operation. These panels feature the same ease of use as modern mobile devices, such as smartphones and tablets, but upgraded for industrial applications.

Combined with a small mounting depth, the completely flat, anti-reflective, and tempered glass panel in XV300 units ensures that these devices not only meet the most demanding design and hygiene requirements, but are also ideal for use in harsh industrial environments.

# Build it in.



## Control and Signaling in Hazardous Locations



For more information  
please refer to the Crouse-Hinds  
main catalog (Part 2)

Download at:  
[www.crouse-hinds.de/en](http://www.crouse-hinds.de/en)  
Products and Brochures



CEAG products from Eaton's Crouse-Hinds series include signal and control devices for a reliable operation in harsh environments.

Enclosures in high degree of protection (IP66) are available in impact-resistant plastic, glass fiber-reinforced polyester, light alloy or stainless steel with a high resistance to chemicals.

The portfolio includes explosion-protected built-in components designed for panel mounting and use in zones 1 and 2. In addition to control units, it also includes signal lamps, pushbuttons, and switches. Moreover, the switch and pushbutton top parts can be combined with various contact systems.

Control units are available in enclosure solutions that make them suitable for use in zone 1, 2, 21, and 22. Up to three built-in components can be installed in each enclosure. Even the light alloy and stainless steel enclosures are particularly characterized by high mechanical and thermal resistances.



**Explosion-protected built-in components**

The use of CEAG signal and control devices for panel mounting applications is approved for panel thicknesses of up to 5 mm. The panel built-in devices, signal lamps, pushbutton, and switch bases can be installed in a matter of seconds by using the bayonet mount on the devices. Single-wire installation is easy and clear. Slip-on strain-relief fittings and protective caps for the cable connections can be retrofitted on all panel mounting devices, at which point the devices become fully certified units.

This approach eliminates the need to configure and keep spares of panel built-in devices with different cable lengths.

**Built-in components for control units**

The variety of built-in components available means that custom-tailored control units for specific customers can be put together within the scope of type examination. The switch and button top parts can be combined with a variety of contact systems as necessary.

**Explosion-protected control units**

Enclosure solutions made of low-temperature impact-resistant thermoplastic, high-quality die-cast aluminum (AlSi), or stainless steel (AISI 316) are available. The well-engineered design behind the plastic housing makes it possible to achieve an optimum cable connection thanks to the fact that the side panels are drawn deeper.

**In order to make cable routing easier, the built-in components can be snapped out from the housing.**

Mounting openings can be left unused so that certified genuine CEAG components can be retrofitted as necessary. In this case, the openings will be sealed at the factory with blanking elements.

**Assortment**

The explosion-protected pilot devices are available as pushbuttons, double pushbuttons, mushroom-head pushbuttons, emergency stop mushroom-head pushbuttons, key-operated pushbuttons and LED signal lamps with a number of designs. In addition, a variety of accessories, including label plates and protective caps, are available as well.

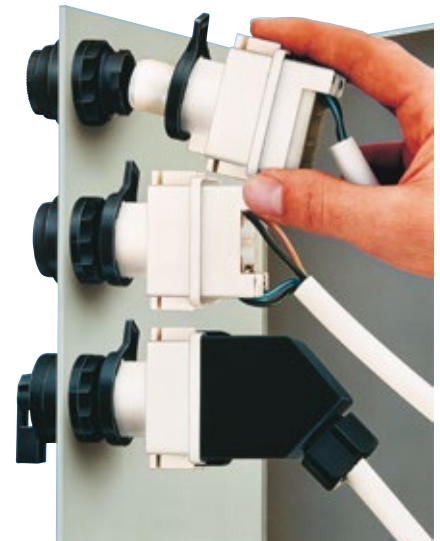
In the case of explosion-protected control units, the built-in components are installed inside an enclosure, making them suitable for use in zone 1 and 2 explosive gas areas and zone 21 and 22 explosive dust areas. The corresponding enclosures made of plastic, light alloy, or stainless steel feature a high degree of protection (IP66).

**Explosion-protected built-in components**

for zone 1 and 2



Eaton Crouse-Hinds products are suitable for use in harsh and demanding environmental conditions.



Quick and easy installation of built-in components in control panels.

**Explosion-protected enclosure solutions**

for zones 1, 2, 21 and 22

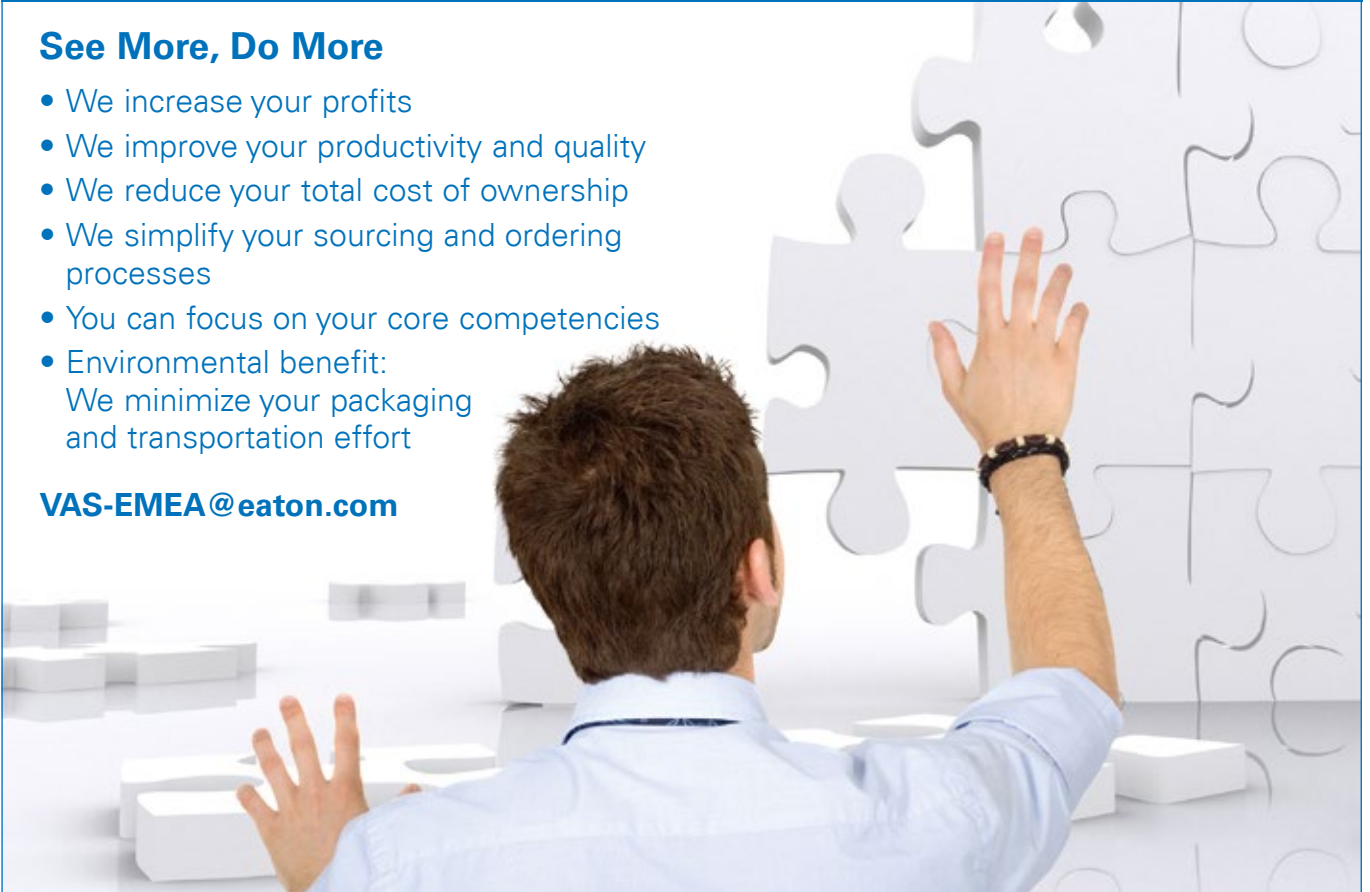


## Our Service – Your Benefit

### See More, Do More

- We increase your profits
- We improve your productivity and quality
- We reduce your total cost of ownership
- We simplify your sourcing and ordering processes
- You can focus on your core competencies
- Environmental benefit:  
We minimize your packaging and transportation effort

**VAS-EMEA@eaton.com**



### Basic Services

- Dispatch notification
- Customized labels / barcodes
- Kitting – all variations / different possibilities
- Customer-specific packaging

### Warehouse Services

### Integrated Solutions

- Product assemblies
- Product combinations incl. wiring
- Products in enclosures / on DIN-rail / mounting plate
- SmartWire-DT solutions
- Pre-programmed soft starters / HMI's / PLC's

### Assemblies

### Customized Solutions

- Workshops with Value Analysis/Value Engineering approach

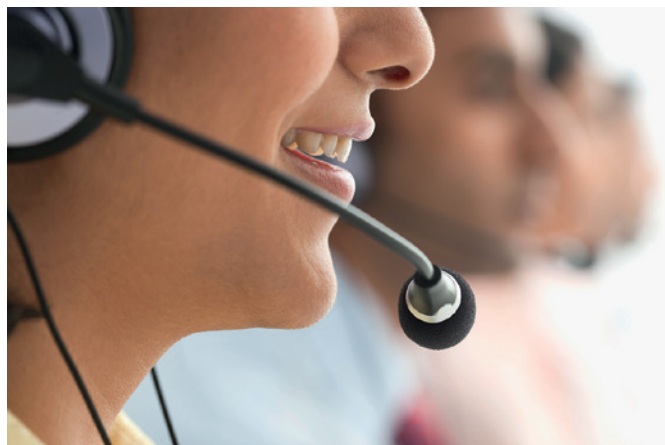
### Workshops / Innovation

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# To find the right contact person

At Eaton, we believe that building and maintaining strong relationships with our customers is something that deserves our undivided attention.

That is why you can rest assured knowing that you will be able to count on us for every project from the very start. Simply contact us to get personalized one-on-one advice. To quickly and easily find the appropriate contact, please refer to the contact addresses below.



In just a few steps, we will get you the contact information for the person or team in charge of support for your specific industry in your region.

To find the right contact person anywhere in the world, visit:

→ [www.eaton.eu/contact](http://www.eaton.eu/contact)

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Eaton is known for its unparalleled after-sales support for low-voltage switchgear, switchgear systems, and services. For more detailed information, as well as to view our terms and conditions, please visit [www.eaton.eu/aftersales](http://www.eaton.eu/aftersales)

### Europe, Middle East, Africa24/7

#### Hotline

For immediate support please call +49 (0) 180 5 223822\* (24/7). You will receive competent and fast, round the clock assistance, with unplanned machine and system stand stills, system malfunctions and device failures.

(\* 0.14 Euro per minute from the Deutsche Telekom AG network)

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If you would like to communicate your service queries in writing, please use the following e-mail address:

[AfterSalesEGBonn@eaton.com](mailto:AfterSalesEGBonn@eaton.com)

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