

10250T Pushbuttons



RMQ-Titan M22 Series



RMQ Compact C22 Series



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Product Description

The E10 switches from Eaton's Electrical Sector are intended for general purpose light industrial use. Designed for retrofit and OEM applications.

Features

General Purpose Toggles

- Various circuit functions include maintained and momentary
- Poles include from single-pole single-throw to four-pole double-throw
- Spade, screw, and solder terminations available
- Numerous ratings
- Short 11/32 in and tall 15/32 in bat lever available
- Standard 15/32–32 thd.
- Hardware furnished assembled

Heavy-Duty Hesitation Switches

- One-hole panel mount
- Three position switch offers unique positive center stop feature to assure lever cannot be thrown from one side through the center OFF position without stopping
 - Design feature is a major acceptance for motor reversing and speed control applications
 - Prevents motor damage resulting from high current generation by counter EMF of the armature at the time of reversing
 - Known as anti-plugging, hesitation, positive stop or positive off switch

Non-Illuminated AC Rated Pushbuttons

- One-hole panel mount
- Medium-duty
- Spade and screw terminations available
- Various bushing lengths and button extensions
- Numerous ampere ratings with horsepower ratings

Standards and Certifications

- UL Recognized
- CSA—File No. LR40068

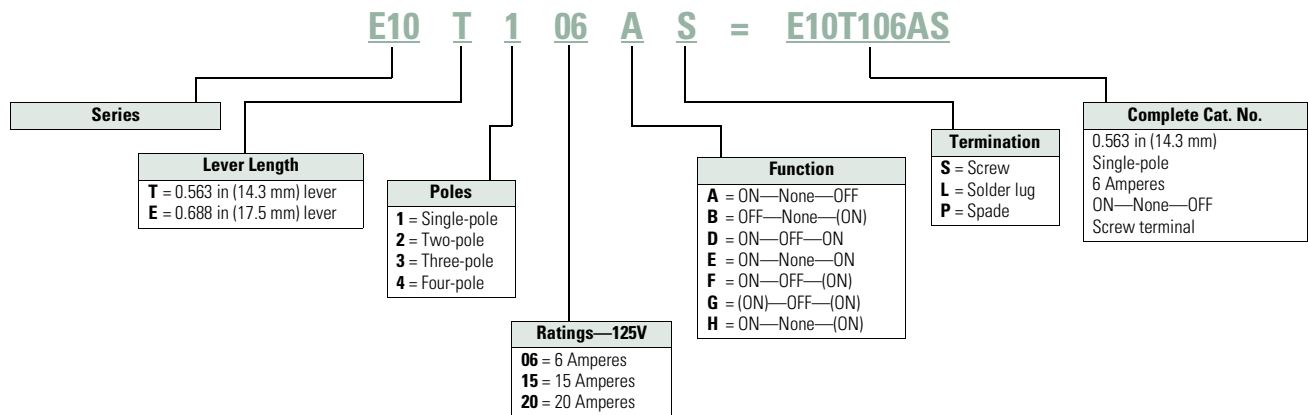


Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Toggle Switches—E10 Series





Not to be used for ordering purposes



Product Selection

Toggle Switches

E10 Series—AC Rated—Minimum Order Quantity 10 Pieces

	Nominal AC Ratings			Poles and Throw ①	Function—Circuit with Lever In			Screw Terminal Catalog Number	0.250 in (6.4 mm) Spade Terminal Catalog Number	Solder Lug Catalog Number
	Amperes 125V	hp 250V	50V		UP Position	CENTER Position	DOWN Position—Keyway			
Single-Pole										
	Single-Pole									
	6	3	—	1 P.S.T.	ON	None	OFF	E10T106AS	E10T106AP	E10T106AL
	15	10	3/4					E10T115AS	E10T115AP	E10T115AL
	20	10	3/4					E10E120AS	E10E120AP	E10E120AL
	6	3	—	1 P.D.T.	ON	OFF	ON	E10T106DS	E10T106DP	—
	15	10	3/4					E10T115DS	E10T115DP	E10T115DL
	20	10	3/4					E10E120DS	—	—
	6	3	—	1 P.D.T.	ON	None	ON	E10T106ES	—	—
	15	10	3/4					E10T115ES	E10T115EP	E10T115EL
	20	10	3/4					E10E120ES	—	—
	—	10	1/2	1 P.S.T.	OFF	None	(ON)	E10T115BS	E10T115BP	—
				1 P.D.T.	ON	OFF	(ON)	E10T115FS	E10T115FP	—
				1 P.D.T.	ON	None	(ON)	E10T115HS	E10T115HP	—
			1 P.D.T.	(ON)	OFF	(ON)	E10T115GS	E10T115GP	—	
Two-Pole										
	Two-Pole									
	6	3	—	2 P.S.T.	ON	None	OFF	E10T206AS	E10T206AP	—
	15	10	3/4					E10T215AS	E10T215AP	E10T215AL
	20	10	3/4					E10E220AS	E10E220AP	E10E220AL
	6	3	—	2 P.D.T.	ON	OFF	ON	E10T206DS	E10T206DP	—
	15	10	3/4					E10T215DS	E10T215DP	E10T215DL
	20	10	3/4					E10E220DS	E10E220DP	—
	6	3	—	2 P.D.T.	ON	None	ON	E10T206ES	—	—
	15	10	3/4					E10T215ES	E10T215EP	E10T215EL
	20	10	3/4					E10E220ES	—	—
	15	10	1/2	2 P.S.T.	OFF	None	(ON)	E10T215BS	—	—
				2 P.D.T.	ON	None	(ON)	E10T215HS	E10T215HP	—
				2 P.D.T.	(ON)	OFF	(ON)	E10T215GS	E10T215GP	—
Three-Pole										
	Three-Pole									
	15	10	3/4	3 P.S.T.	ON	None	OFF	E10E315AS	E10E315AP	—
				3 P.D.T.	ON	OFF	ON	E10E315DS	E10E315DP	E10E315DL
			3 P.D.T.	ON	None	ON	E10E315ES	E10E315EP	E10E315EL	
Four-Pole										
	Four-Pole									
	15	10	3/4	4 P.S.T.	ON	None	OFF	E10E415AS	—	E10E415AL
				4 P.D.T.	ON	OFF	ON	E10E415DS	—	E10E415DL
			4 P.D.T.	ON	None	ON	E10E415ES	—	E10E415EL	

Note

① See Circuit Diagrams on Page V7-T1-6.

Hesitation Switches

Heavy-Duty Hesitation Switch



E10 Series—Special Purpose—Minimum Order Quantity 10 Pieces

Nominal Ratings				Function—Circuit with Lever In...					Poles and Throw ①	Screw Terminal Catalog Number
Amperes		hp		Operation	UP Position	CENTER Position	DOWN Position—Keyway			
28 Vdc	125 Vac	250 Vac	250 Vac							
15	15	10	3/4	Maintained	ON	OFF	ON	2 P.D.T.	E10E215SS	
								3 P.D.T.	E10E315SS	
								4 P.D.T.	E10E415SS	

Pushbuttons

One-Hole Mounted Medium-Duty, Mom. Contact



E10 Series—Minimum Order Quantity 10 Pieces

Nominal Ratings					Poles and Throw ①	Contacts	Bushing Length in (mm) Dim. "A"	Button Extension in (mm) Dim. "B"	Typical Maximum Operating Force	Screw Terminal Catalog Number	Spade Terminal 0.250 in (6.4 mm) Catalog Number
Amperes		hp									
125 Vac	250 Vac	125–250V									
NO	NC	NO	NC								
6	—	3	—	—	1 P.S.T.	NO	0.69 (17.5) 0.34 (8.6)	0.53 (13.5) 0.25 (6.4)	0.9 lbs	E10P106RS E10P106JS	E10P106RP —
15	—	10	—	1/3	1 P.S.T.	NO	0.69 (17.5) 0.34 (8.6)	0.53 (13.5) 0.25 (6.4)	0.9 lbs	E10P115RS E10P115JS	E10P115RP —
15	10	10	5	1/4 ②	1 P.D.T.	NO, NC	0.69 (17.5)	0.53 (13.5)	1.0 lbs	E10P115LS	—

Accessories

Toggle Switches Accessories—Minimum Order Quantity 100 Pieces

Description	Material/Notes	Catalog Number
Hexagon locknut	Zinc-chromate treated steel	E10TA101
Knurled face nut	Zinc-chromate treated steel	E10TA102
Internal tooth lockwasher	Cadmium plated steel	E10TA103
Terminal screws	#6-32 x 3/16 in binding head	E10TA201
Spade terminal adapter—0.250 in (6.4 mm)	Assembles to screw terminals	E10TA202
ON-OFF indicating plate—vertical orientation	Burnished nickel finish steel	E10TA301
OFF-ON indicating plate—horizontal orientation	Burnished nickel finish steel	E10TA302
Flip-up guard for toggle switches		E10TA104

E10TA104



E10TA105



Fixed shroud for toggle switches

E10TA105

Notes

Interlock mechanism prevents operation of lever through the center position until pressure is momentarily relieved. Designed for control and protection of reversing motors.

① See Circuit Diagrams on **Page V7-T1-6**.

② Rated 1/4 hp at 125V, 1/2 hp at 250V.

Technical Data and Specifications

Toggle Switches

Description	Specification
AC ratings	6–20A, 125 Vac 3–10A, 250 Vac Max. 3/4 hp at 250 Vac
DC ratings	6–20A, 28 Vdc
Electrical life	6,000 cycles make/break at switch ampere rating
Operation	Slow make/slow break mechanism with butt action for AC and low voltage DC applications Maintained and momentary contacts
Poles/throws	1 through 4, single and double throw
Mounting	One hole with threaded 0.468 in-32 bushing and 0.068 x 0.035 in (1.7 x 0.9 mm) deep keyway that serves as anti-rotational feature
Lever lengths	0.563 in (14.3 mm) or 0.688 in (17.5 mm), bright nickel plated
Terminals	Screw, 0.250 in (6.4 mm) spade and solder lug

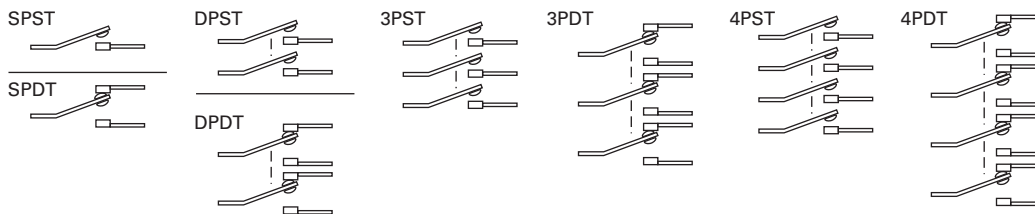
Hesitation Switches

Description	Specification
Operation	Slow make/slow break mechanism with butt action for AC and low voltage DC applications; maintained contacts; ideal for reversing motor applications; interlock mechanism prevents operation of lever through center position until manual pressure is momentarily relieved
AC ratings	15A, 125 Vac 10A, 250 Vac Max. 3/4 hp at 250 Vac
DC ratings	15A, 28 Vdc
Poles/throws	2, 3 and 4, double throw only
Mounting	Single-pole with threaded 0.468 in-32 bushing and 0.068 x 0.049 in (1.7 x 1.2 mm) deep keyway
Lever length	0.687 in (17.4 mm), stainless steel
Terminals	Screw

Pushbutton Actuators

Description	Specification
AC ratings	6–15A, 125 Vac (NO) 3–10A, 250 Vac (NO) Max. 1/3 hp at 125/250 Vac
Operation	Slow make/slow break mechanism Normally open contacts
Poles/throws	Single, single and double throw
Mounting	One hole with 0.468 in-32 threaded bushing and 0.068 x 0.035 in (1.7 x 0.9 mm) deep keyway Two bushing heights: 11/16 in (17.5 mm) and 11/32 in (8.7 mm)
Button extensions	17/32 in (13.5 mm) and 1/4 in (6.4 mm), bright nickel plated
Terminals	Screw

Circuit Diagrams



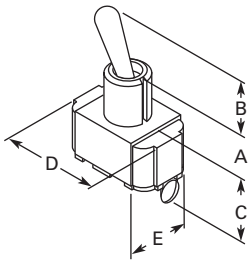
Dimensions

Approximate Dimensions in Inches (mm)

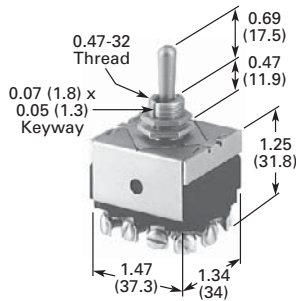
Toggle Switch Dimensions

No. of Poles	Operation	Bushing Length	Lever Length	Screw Terminals			Spade Terminals			Solder Lug		
		A	B	C	D	E	C ^①	D	E	C	D	E
1	Momentary and maintained	0.47 (11.9)	0.56 (14.2)	1.00 (25.4)	1.17 (29.7)	0.63 (16.0)	1.13 (28.7)	1.13 (28.7)	0.63 (16.0)	1.00 (25.4)	1.13 (28.7)	0.63 (16.0)
2	Maintained	0.47 (11.9)	0.56 (14.2)	1.06 (26.9)	1.31 (33.3)	0.75 (19.1)	1.19 (30.2)	1.31 (33.3)	0.75 (19.1)	1.06 (26.9)	1.31 (33.3)	0.75 (19.1)
	Momentary	0.47 (11.9)	0.56 (14.2)	1.25 (31.8)	1.31 (33.3)	0.75 (19.1)	1.31 (33.3)	1.31 (33.3)	0.75 (19.1)	1.25 (31.8)	1.31 (33.3)	0.75 (19.1)
3	Maintained	0.47 (11.9)	0.69 (17.5)	1.27 (32.3)	1.34 (34.0)	1.44 (36.6)	1.37 (34.8)	1.34 (34.0)	1.44 (36.6)	1.23 (31.2)	1.34 (34.0)	1.44 (36.6)
4	Maintained	0.47 (11.9)	0.69 (17.5)	1.20 (30.5)	1.30 (33.0)	1.40 (35.6)	1.30 (33.0)	1.34 (34.0)	1.40 (35.6)	1.23 (31.2)	1.34 (34.0)	1.44 (36.6)

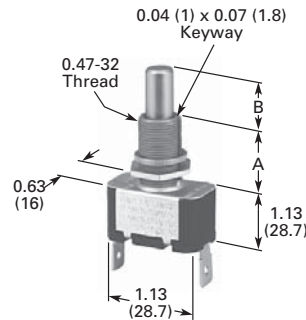
Toggle Switch



Hesitation Switch

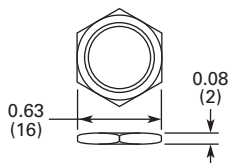


Pushbutton Actuator

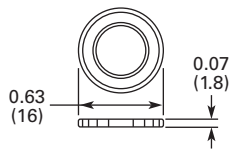


Accessories

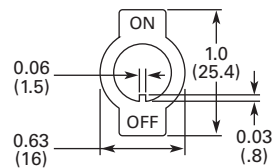
E10TA101 Hexagon Locknut



E10TA102 Knurled Face Nut



E10TA301 ON-OFF Indicating Plate—Vertical Orientation



E10TA302 ON-OFF Indicating Plate—Horizontal Orientation



Note

① Spade terminal adapters are used on 6 ampere and momentary screw terminal switches, adding 0.42 in (10.7 mm) to dimension C.

Pushbutton Control Stations



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Product Description

M22 Assembled Control Stations

- M22 series operators
- Available in horizontal and vertical configurations
- Impact resistant polycarbonate enclosures
- Optional yellow covers
- Base mounting contact blocks and light units for quick wiring and vibration resistance

Commercial Control Stations

- 10250T series operators
- Full front label
- Specific function labels on front of enclosure

General Purpose Control Stations

- Construction grade
- General purpose wall mount
- Popular with contractors
- UL (NEMA) Type 1

Special Purpose Control Stations

- Standard grade
- Polyester enclosure
- UL (NEMA) Type 3, 3R, 4, 4X, 13

10250H Series Heavy-Duty Control Stations

- 10250H Series operators
- Dark brown polyester enclosure
- Protective rubber gaskets provide NEMA 3S rating on pushbuttons
- Top and bottom 3/4 in NPT conduit entrances
- Includes alternate legend plates and spare mounting screws

10250T Series Heavy-Duty 30.5 mm Control Stations

- 10250T Series operators
- ASA 61 gray die-cast zinc enclosures
- Surface or flush mounting
- Single 3/4 in NPT conduit entrance on one and two element stations
- Single 1 in NPT conduit entrance on three element stations

Class I Division 2 10250T Series Heavy-Duty 30.5 mm Control Stations

- 10250T Series operators
- Factory sealed contact blocks
- Die-cast, polyester or stainless steel enclosures
- Approved for NEC Class I Division 2, Groups B, C and D or Class I Zone 2 Group IIB plus Hydrogen type hazardous locations

Class I Division 2 E34 Series Corrosion Resistant 30.5 mm Control Stations

- E34 Series operators
- Factory sealed contact blocks
- Die-cast, polyester or stainless steel enclosures
- Approved for NEC Class I Division 2 Groups B, C and D or Class I Zone 2 Group IIB plus Hydrogen type hazardous locations

Features

M22 Assembled Control Stations

- IP66, UL (NEMA) Type 4X, 13
- Impact resistant polycarbonate enclosures
- Optional yellow cover
- 25% smaller depth than most competitor enclosures
- Base mounting contact blocks and light units for faster wiring and vibration resistance

Commercial Control Stations

- ASA 61 gray die-cast zinc enclosures
- Pre-assembled and labeled for functions such as “Fuel Shut-Off”
- Great for commercial applications

General Purpose Control Stations

- Construction grade
- General purpose wall mount
- Popular with contractors
- UL (NEMA) Type 1

Special Purpose Control Stations

- Standard grade
- Polyester enclosure
- UL (NEMA) Type 3, 3R, 4, 4X, 13

10250H Series Heavy-Duty Control Stations

- Industrial grade
- Extra heavy-duty
- Polyester enclosure
- Booted buttons
- Outdoor installation
- UL (NEMA) Type 3, 3R, 3S, 4, 4X, 12, 13

10250T Series Heavy-Duty 30.5 mm Control Stations

- 30.5 mm operators
- Industrial grade
- Zinc die cast enclosure
- Popular with industrial end users
- UL (NEMA) Type 4, 4X, 12, 13

Class I Division 2 Control Stations

- Available with 10250T or E34 30.5 mm operators
- Zinc die cast, polyester or stainless steel enclosures
- Factory-sealed contact blocks
- Popular with industrial end users
- UL (NEMA) Type 4, 4X, 12, 13
- NEC Class I Division 2 Groups B, C and D

Product Selection

M22 Assembled Control Stations



One Element Control Stations

Orientation	Description	Color	①	Inscription	Enclosure Cover Color	Catalog Number
Horizontal	40 mm mushroom head push-pull emergency stop operator	Red	NC	—	Yellow	M22-C1-M1H
Horizontal	40 mm illuminated mushroom head push-pull emergency stop operator, 85–264 Vac	Red	NO-NC	—	Yellow	M22-C1-M2H
Horizontal	40 mm mushroom head twist-to-release emergency stop operator	Red	NC	—	Yellow	M22-C1-M3H
Horizontal	40 mm mushroom head key-release emergency stop operator	Red	NC	—	Yellow	M22-C1-M4H
Horizontal	Flush pushbutton	Green	NO	①	Gray	M22-C1-M5H
Horizontal	Flush pushbutton	Green	NO	START	Gray	M22-C1-M6H
Horizontal	Extended pushbutton	Red	NC	⊙	Gray	M22-C1-M7H
Horizontal	Extended pushbutton	Red	NC	STOP	Gray	M22-C1-M8H
Horizontal	Key-operated selector switch, two-position maintained	—	NO	OFF-ON	Gray	M22-C1-M9H
Horizontal	Knob type selector switch, three-position maintained	—	2NO	HAND 0 AUTO	Gray	M22-C1-M10H
Horizontal	Double pushbutton	Green	NO	START	Gray	M22-C1-M11H
		Red	NC	STOP		

Two Element Control Stations

Orientation	Element 1 Description	Color	①	Inscription	Element 2 Description	Color	①	Inscription	Enclosure Cover Color	Catalog Number
Horizontal	Extended pushbutton	Red	NC	⊙	Flush pushbutton	Green	NO	①	Gray	M22-C2-M1H
Vertical	Flush pushbutton	Green	NO	START	Extended pushbutton	Red	NC	STOP	Gray	M22-C2-M2V
Vertical	Flush pushbutton	Black	NO	FORWARD	Flush pushbutton	Black	NO	REVERSE	Gray	M22-C2-M3V

Three Element Control Stations

Orientation	Element 1 Description	Color	①	Inscription	Element 2 Description	Color	①	Inscription	Element 3 Description	Color	①	Inscription	Enclosure Cover Color	Catalog Number
Horizontal	Extended pushbutton	Red	NC	⊙	Indicating light	White	85–264 Vac	—	Flush pushbutton	Green	NO	①	Gray	M22-C3-M1H
Vertical	Indicating light	White	85–264 Vac	—	Flush pushbutton	Green	NO	START	Extended pushbutton	Red	NC	STOP	Gray	M22-C3-M2V
Horizontal	Flush pushbutton	Green	NO	①	Extended pushbutton	Red	NC	⊙	Flush pushbutton	Green	NO	Ⓜ	Gray	M22-C3-M3H
Vertical	Flush pushbutton	Black	NO	OPEN	Extended pushbutton	Red	NC	STOP	Flush pushbutton	Black	NO	CLOSE	Gray	M22-C3-M4V
Vertical	Flush pushbutton	Black	NO	FORWARD	Flush pushbutton	Red	NC	STOP	Flush pushbutton	Black	NO	REVERSE	Gray	M22-C3-M5V
Vertical	Flush pushbutton	Black	NO	UP	Flush pushbutton	Red	NC	STOP	Flush pushbutton	Black	NO	DOWN	Gray	M22-C3-M6V

Notes

For assembled control stations not found in this selection, please contact the Eaton Technical Resource Center at 1-877-ETN CARE (386-2273) or TRC@eaton.com.

① Contact block configuration.

Commercial Control Stations



Key Specifications

- 30.5 mm (10250T series) operators
- ASA 61 gray die-cast zinc enclosures
- Industrial grade
- UL® Type 4, 4X, 12, 13
- Single 3/4 in NPT conduit entrance
- Dimensions—in (mm)
 - Enclosure: 3.88 W x 4.00 H x 3.00 D (98.6 x 101.6 x 76.3)
 - Operator: 1.63 D (to enclosure) x 1.50 diameter (41.4 x 38.1)

What is included?

Eaton's pre-assembled, enclosed emergency stop pushbutton stations include an operator, an enclosure, contact blocks and a variety of unique labels. Each label has white lettering on a red background indicating the function and red lettering on a white background indicating the operator type.

Available Catalog Numbers

Catalog Number ^①	Operator	Enclosure Color	Label
10250T5B62-S101	Push-Pull	Gray	EMERGENCY STOP
10250T5B62-S102	Push-Pull	Gray	EMERGENCY SHUT-OFF
10250T5B62-S103	Push-Pull	Gray	EMERGENCY GENERATOR STOP
10250T5B62-S104	Push-Pull	Gray	EMERGENCY HVAC SHUT-DOWN
10250T5B62-S105	Push-Pull	Gray	EMERGENCY ELECTRICAL DISCONNECT
10250T5B62-S106	Push-Pull	Gray	EMERGENCY BOILER SHUT-DOWN
10250T5B62-S107	Push-Pull	Gray	EMERGENCY CHILLER STOP
10250T5B62-S108	Push-Pull	Gray	EMERGENCY FUEL SHUT-OFF
10250T5B62-S109	Push-Pull	Gray	EMERGENCY REFRIGERATION STOP
10250T5B62-S110	Push-Pull	Gray	EMERGENCY POWER OFF
10250T5B62-S111	Push-Pull	Gray	EMERGENCY GAS SHUT-OFF
10250T5B62-S112	Push-Pull	Gray	EMERGENCY VENTILATION SHUT-DOWN
10250T5B62-S113	Push-Pull	Gray	GENERATOR

Additional Contact Blocks

(Sold Separately)

















Catalog Number	Circuit Configuration
10250T51	1NC
10250T53	1NO
10250T1	NO-NC
10250T3	2NC
10250T2	2NO

Note

① Includes 1NO-1NC contact block.

General Purpose Control Stations

Type N Control Stations—UL (NEMA) Type 1







Contact Symbol	Button Type/Color	Legends	Catalog Number
Single Button Station for Padlock Attachment ①			
	Flush/green	START	10250H5100
	Flush/red	STOP	10250H5101
	Extended/red	STOP	10250H5104
	Palm operated/black	None	10250H89 ②
			
Selector Switch			
	Three-position selector switch/black knob	RUN/OFF/AUTO	10250H289 ②
Two Button Station			
Two Element Enclosure Type			
	Flush/red	START/STOP	10250H5200
	Flush/green extended/red	START/STOP	10250H5207
	Flush/black (all)	RAISE/LOWER	10250H5201
		FOR/REV	10250H5202
		OPEN/CLOSE	10250H5203
		UP/DOWN	10250H5204
		HIGH/LOW	10250H5205
		FAST/SLOW	10250H5208
Three Button Station			
Three Element Enclosure Type			
	Flush/black (all)	FOR/REV/STOP	10250H5300
		UP/DOWN/STOP	10250H5301
		RAISE/LOWER/STOP	10250H5302
		OPEN/CLOSE/STOP	10250H5303
		FAST/SLOW/STOP	10250H5304
Three Button Station with Indicating Light			
	110/220V neon indicating light	START/STOP	
	Clear—flush/green; flush/red		10250H5310
	Red—flush/green; flush/red		10250ED853
	Amber—flush/green; flush/red		10250ED853-2

Notes

① Padlock attachment (10250H5110) must be purchased separately.










② Round button.

Type N Control Stations—Open Type Construction (No Cover)

	Contact Symbol	Button Type/Color	Legends	Catalog Number
Selector Switch	One Element Enclosure Type			
		Three-position selector switch/black knob	RUN/OFF/AUTO	10250H2538
Two Button Station	Two Element Enclosure Type			
		Flush/green	START/STOP	10250H2747
Mechanically Interlocked Pushbuttons		Flush/black (all) mech. interlocked	None ^①	10250H2544
				

Special Purpose Control Stations

Special Purpose Control Stations—UL (NEMA) Type 3, 3R, 4, 4X, 13




	Contact Symbol	Feature	Legends	Catalog Number
10250H_	One Element Pushbutton Type			
		Flush	START	10250H2738
			STOP	10250H658
		With lock hasp	STOP	10250H665
10250H_	Two Element Pushbutton Type			
		Flush	START/STOP	10250H364
		With lock hasp	START/STOP	10250H671
		Buttons interlocked	FAST/SLOW	10250ED664
			FOR/REV	10250H2740
			UP/DOWN	10250H2741
			OPEN/CLOSE	10250H2742

Note

^① No legend on buttons. Specify any standard legend.





10250H Series Heavy-Duty Control Stations

Type H Control Stations—UL (NEMA) Type 3, 3S, 4, 4X, 12, 13

Element Type	Feature	Circuit	Assembled Legend Plate	Unassembled Alternate Legend Plate	Catalog Number	
10250H_ One Element						
	Pushbuttons	Without padlock hasp	1NO-1NC	JOG	START STOP RUN	10250H1881
		With padlock hasp	1NC	STOP	—	10250H4239
Knob selector switch	Two-position	1NO-1NC	OFF/ON	—	10250H4526	
	Three-position	1NO-1NC	MAN/OFF/AUTO	—	10250H4527	
10250H_ Two Element						
	Pushbuttons	Standard	1NO-2NC	START/STOP	—	10250H1884
			2NO-2NC	RAISE/LOWER	FORWARD REVERSE OPEN CLOSE	10250H1885
		Standard and standard with padlock hasp	1NO-2NC	START/STOP	—	10250H4240
10250H_ Three Element						
	Pushbuttons	Standard	2NO-3NC	FOR/REV/STOP	START OPEN	10250H1890
		Two standard and standard with padlock hasp			JOG CLOSE RAISE FAST LOWER SLOW	10250H4241
		Indicating light and pushbuttons	120V	Light-red lens and two plain	1NO-2NC	MOTOR RUNNING START/STOP

10250T Series Heavy-Duty 30.5 mm Control Stations

Complete Assembled Stations—UL (NEMA) Type 4, 4X, 12, 13

Element Type ^①	Features	Contact Block(s)	Legend	Surface Mounting Catalog Number	Flush Mounting ^② Catalog Number	
Break Glass Station						
	Break glass station ^③	Gray enclosure	NC (logic level)	EMERG. OFF	10250TGS	—
		Red enclosure			10250TGR	—
One Element						
	Pushbutton	Standard	NO-NC	START	10250T3516	10250T3573
			NC	STOP	10250T3518	10250T3575
			NO-NC	None	10250T3540	10250T3597
		Mushroom head	NO-NC	START	10250T3517	10250T3574
		NC	STOP	10250T3519	10250T3576	
		With lock hasp ^④	NC	STOP	10250T3520	10250T3577
	Selector switch	Two-position black knob	NO-NC	OFF/ON	10250T3523	10250T3580
		Three-position black knob	2NO	MAN/OFF/AUTO	10250T3524	10250T3581
Push-pull three-position	Momentary red button	2NC	START/STOP	10250T3545	10250T3602	
Two Element						
	Pushbuttons	Standard	1NO-2NC	START/STOP	10250T3525	10250T3582
			2NO-2NC	RAISE/LOWER	10250T3672	10250T3673
			2NO-2NC	None	10250T3541	10250T3598
		With lock hasp ^④	1NO-2NC	START/STOP	10250T3542	10250T3599
		Standard and mushroom head	1NO-2NC	START/STOP	10250T3526	10250T3583
		Standard with maintained contact ^⑤	NO-NC Plus NC	START/STOP	10250T3528	10250T3585
Three Element						
	Pushbuttons	Standard	2NO-3NC	FOR, REV, STOP	10250T3532	10250T3589
			2NO-3NC	UP, DOWN, STOP	10250T3615	—
			2NO-3NC	OPEN, CLOSE, STOP	10250T3614	—
			2NO-3NC	None, None, STOP	10250T3543	10250T3600
		Two standard and with lock hasp	2NO-3NC	None, None, STOP	10250T3544	10250T3601
	Indicating light (transformer type) and pushbuttons	Red lens — 120V	1NO-2NC	MOTOR RUN, START/STOP	10250T3536	10250T3593
		Red lens — 240V			10250T3537	10250T3594
Red lens — 480V				10250T3538	10250T3595	
	Red lens — 600V			10250T3539	10250T3596	

Break Glass Operator ^⑥



Break Glass Kit

Description	Catalog Number
Operator with hammer and 5 glass discs	10250TBG
Glass discs only (5)	10250TGL

Notes








- ① Stop buttons are red—all others are black.
- ② NEMA 4–13, if properly mounted on a flat surface. Consists of front plate, legend, operator and contact blocks.
- ③ Break glass stations will not function with Normally Open contact blocks.
- ④ Lock is 10250TA2.
- ⑤ Uses deep cover instead of shallow cover. Switch component is 10250TA67—mechanically interlocked operators.
- ⑥ Shown assembled to contact block (contact block supplied separately).

Class I Division 2 E34 Series Corrosion Resistant 30.5 mm Control Stations

E34EX_



Complete Assembled Stations— UL (NEMA) Type 4, 4X, 12, 13; NEC Class I Division 2, Groups B, C and D

Contact Symbol	Button Type/Color	Legend Marking	Die Cast Enclosure Catalog Number	Polyester Molded Enclosure Catalog Number	Stainless Steel Enclosure Catalog Number
Single Pushbutton					
 1NO	Flush/green	START	E34EX7003	E34EX7003P	E34EX7003S
 1NC	Extended/red	STOP	E34EX7005	E34EX7005P	E34EX7005S
	Alum. jumbo mushroom/red	EMER. STOP (engraved button)	E34EX7007	E34EX7007P	E34EX7007S
	Flush/black	No legend	E34EX7009	E34EX7009P	E34EX7009S
Two Pushbuttons					
 1NO	Flush/green	START	E34EX7023	E34EX7023P	E34EX7023S
 1NC	Extended/red	STOP			
Each Button	Flush/black	No legend	E34EX7025	E34EX7025P	E34EX7025S
	Flush/black	No legend			
Three-Position Selector Switch					
 2NO	Maintained knob/black	HAND/OFF/AUTO	E34EX7011	E34EX7011P	E34EX7011S
 2NC	Maintained knob/black	No legend	E34EX7013	E34EX7013P	E34EX7013S
Single Pushbutton Maintained					
 Pull Push O X 1NO X O 1NC	Push-pull with jumbo mushroom/red	EMER. STOP (engraved button)	E34EX7019	E34EX7019P	E34EX7019S

Accessories

Padlock Attachment



Type N Control Stations

Description	Catalog Number
Padlock attachment—For field assembly on square button type (except extended button types)	10250H5110

Note

Use NEMA 4X 10250T operators where exposed to ultraviolet light, see **Page V7-T1-16**.

1 Custom Assembled Stations Specification Form

Ordering Instructions

Step 1

Copy this ordering guide from catalog.

Step 2

Specify 10250T or E34 pushbutton lines in the corresponding box on the following page.

10250T	Pages V7-T1-205 to V7-T1-275
E34	Pages V7-T1-276 to V7-T1-317
10250T and E34 Class I Div. 2	Pages V7-T1-343 to V7-T1-383

Step 3

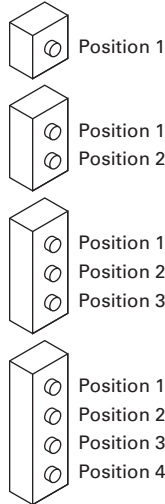
Check back of panel dimensions—specify single or double depth enclosure in the corresponding box on the following page.

Step 4

Specify enclosure catalog number and price in the corresponding box on the following page. Enclosures can be found on **Pages V7-T1-110, V7-T1-255 and V7-T1-305**. For pricing, reference the most recent PAD or VISTA-line.

Step 5

Specify catalog numbers for desired operator, legend plate, light unit, accessory and contact block(s) for each location in the enclosure in the corresponding box on the following page. (See position locations on this page.)



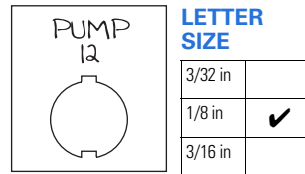
Position Locations

Step 6

For non-standard legends, specify legend desired, letter size and location on the layout sketches on the following page. For limitations see **Page V7-T1-254**. For pricing, use the blank legend catalog number and "STAMP" Suffix (Ex.: **10250TS36STAMP**) and reference the most recent PAD or VISTA-line.

Example: 10250TS36

Special Legend for Position # _____



Step 7

Fax Sheet 2 of this form to Eaton's TRC, Technical Resource Center, at 828-651-0549 to the attention of—**Custom Stations Order** or email to TRC@eaton.com.

Within a few days you will receive a confirmation fax with the custom station part number and price.

Step 8

Place your order over the VISTA System.

For Selector and Roto-Push Operators

10250T or E34

For single contact blocks or 1NO-1NC contact blocks, the mounting position of contacts must be specified. For example: If a 1NO-1NC contact block is required, specify if NO is to be mounted in Top A position or Bottom B position.



To — **Eaton's TRC, Custom Station Order**
(828) 651-0549 FAX, or email to TRC@eaton.com

FACTORY USE ONLY	
Part Number	
Product Code	
Suffix	
Date	
Engineer	

From — Customer Name _____
 Customer Contact _____
 Phone Number _____
 Fax Number _____
 Email Address _____

Step 2)

10250T **STD** **Class I Division 2**
E34 **STD** **Class I Division 2**

Step 3) ✓

Single Depth Enclosure	
Double Depth Enclosure	

Step 4)

Enclosure Catalog Number	Price

Step 5)

Position	Operator	Price U.S. \$	Light Unit	Price U.S. \$	Contact Block	Price U.S. \$	A/L	B/R	Contact Block	Price U.S. \$	A/L	B/R	Total Price
1													
2													
3													
4													

Position	Legend Plate	Price U.S. \$	Lens or Caps	Price U.S. \$	Accessory	Price U.S. \$	Total Price
1							
2							
3							
4							

**10% Adder
for Assembled Stations**

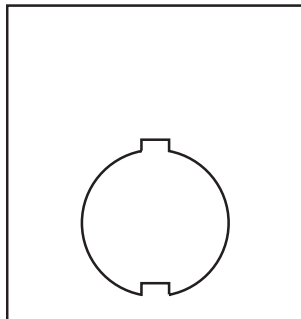
Total:

Step 6) Non-standard Legends

Special Legend for Position # _____

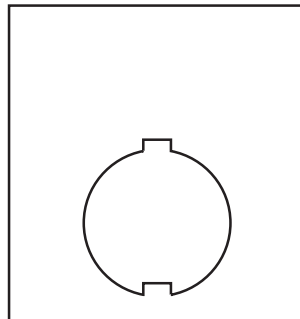
Special Legend for Position # _____

Special Legend for Position # _____



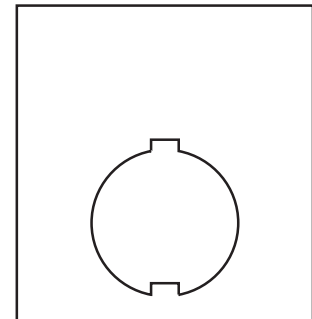
LETTER SIZE ✓

3/32 inch (2.4 mm)	
1/8 inch (3.2 mm)	
3/16 inch (4.8 mm)	



LETTER SIZE ✓

3/32 inch (2.4 mm)	
1/8 inch (3.2 mm)	
3/16 inch (4.8 mm)	



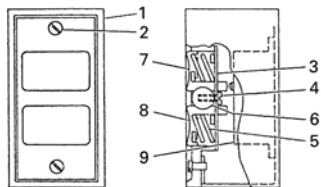
LETTER SIZE ✓

3/32 inch (2.4 mm)	
1/8 inch (3.2 mm)	
3/16 inch (4.8 mm)	

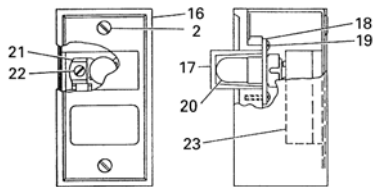
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Renewal Parts

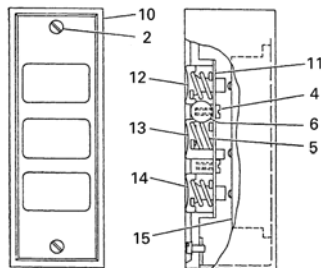
Type N Renewal Parts



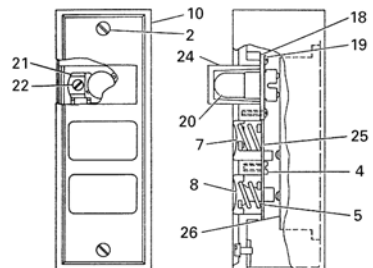
One and Two Element Station



One Element Indicating Light



Three Element Station



Two Element Station with Indicating Light



Open Type Two Element

Assembled Stations—Type N

Item No.	Description	No. Req.	Part Number
Type N—Square Buttons			
1	Cover	1	
	Two element		49-3524
	One element—top button		49-3524-2
	One element—bottom button		49-3524-3
2	Cover screw	2	11-2168
3	Pushbutton support bracket	1	79-6649
4	Pushbutton support bracket screw	1	11-2090
5	Pushbutton spring	2	69-2571
6	Disc (when used—two element assembly)	2	16-1960
7	Pushbutton—top position	1	
	START/green		53-1169-3
	RAISE/black		53-1169-66
	FORWARD/black		53-1169-7
	OPEN/black		53-1169-9
	UP/blank		53-1169-11
	Blank/green		53-1169
8	Pushbutton—bottom position	1	
	STOP/red		53-1202-2
	Extended STOP/red		53-1202-5
	REVERSE/black		53-1169-8
	CLOSE/black		53-1169-10
	DOWN/black		53-1169-12
	LOWER/black		53-1169-6
	Blank/red		53-1202

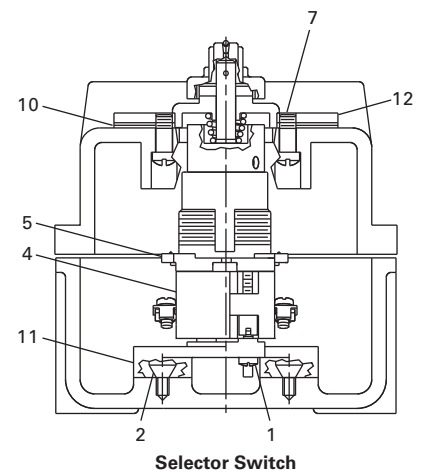
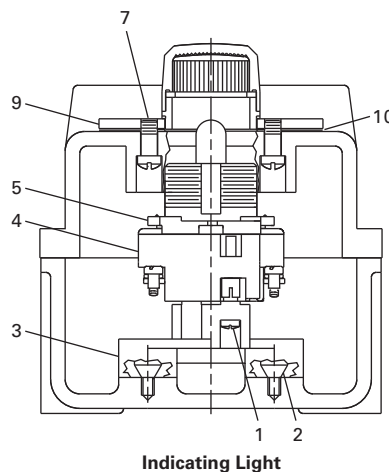
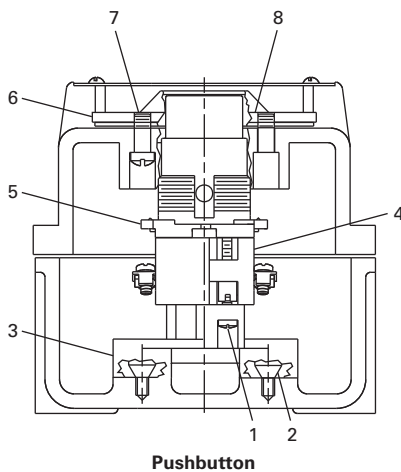
Item No.	Description	No. Req.	Part Number
Type N—Square Buttons, continued			
9	Pushbutton element	1	
	1NO-1NC		86-2588
	2NO		86-2588-2
	1NO		86-2588-3
	1NC		86-2588-4
10	Cover	1	49-3464
11	Pushbutton support bracket	1	79-6650
12	Pushbutton—top position	1	
	FORWARD/black		53-1170-7
	UP/black		53-1170-4
	RAISE/black		53-1170-5
	OPEN/black		53-1170-9
	FAST/black		53-1170-6
13	Pushbutton middle position	1	
	REVERSE/black		53-1169-15
	DOWN/black		53-1169-18
	LOWER/black		53-1169-16
	CLOSE/black		53-1169-17
	SLOW/black		53-1169-13
14	Pushbutton—bottom position	1	
	STOP/red		53-1201-2
15	Pushbutton element	1	
	2NO-3NC		86-2593
16	Cover	1	49-3524-4

Assembled Stations—Type N, continued

Item No.	Description	No. Req.	Part Number
Type N—Square Buttons, continued			
17	Lens	1	
	Clear		28-494
	Red		28-887-2
	Amber		28-887-3
18	Shield	1	73-1337
19	Shield screws	4	11-2012
20	Lamp (neon NE48)	1	28-494
21	Lamp receptacle	1	28-902
22	Lamp receptacle screw	1	911-330F1
23	Pilot light terminal base	1	86-2586
24	Lens	1	
	Clear		28-887
	Red		28-887-2
	Amber		28-887-3
25	Pushbutton support bracket	1	79-6650-2
26	Pushbutton element	1	
	1NO-1NC		86-2594

Item No.	Description	No. Req.	Part Number
Type N—Round Buttons			
Similar to 27	Pushbutton assembly and element for:		
	10250H289	1	10250H2538
	10250H364	1	86-353
	10250H685	1	86-353-8
	10250H665	1	86-353-8
	10250H671	1	86-353
	10250H2738	1	86-353-3
	10250H2740	1	86-356
	10250H2741	1	86-356
	10250H2742	1	86-356

Type H Renewal Parts



Assembled Stations—Type H

Item No.	Description	No. Req.	Part Number
Type H—Assembled Stations			
1	Screw	2	11-4654
2	Screw	2	11-5719
3	Base	1	17-16560
4	Contact blocks	See Page V7-T1-257	
5	10250T operator	See Pages V7-T1-211 to V7-T1-247	
6	Mounting plate	1	17-19524

Item No.	Description	No. Req.	Part Number
Type H—Assembled Stations			
7	Screw	4	11-953
8	Diaphragm	1	32-253-2
9	Mounting plate	1	17-19522
10	Gasket	1	32-254
11	Base	1	17-16561
12	Mounting plate	1	17-19523

Technical Data and Specifications

Ratings

Maximum Ampere Ratings for Type N Control Stations

Description	Volts AC				Volts DC		
	110	220	440	550	120	240	600
Make and emergency interrupt capacity	30	15	7.5	6	1.0	0.5	0.1
Normal load break	3	1.5	0.75	0.6	1.0	0.5	0.1
Continuous current	10	10	10	10	10	10	10

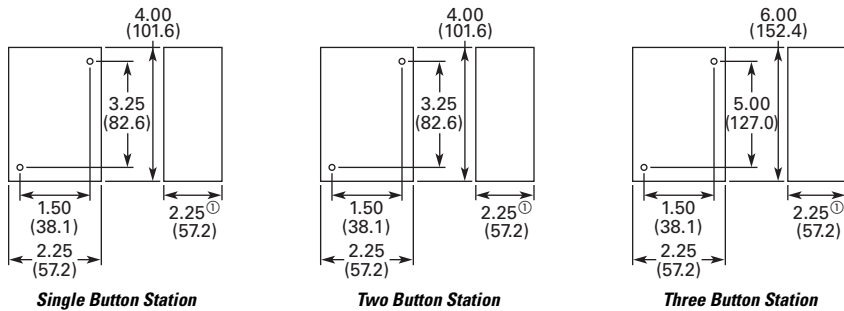
Maximum Ampere Ratings for Type H Control Stations

Description	Volts AC 50/60 Hz				Volts DC	
	120	240	480	600	125	250
Make and emergency interrupt capacity	60	30	15	12	1.1	0.55
Normal load break	6	3	1.5	1.2	1.1	0.55
Continuous amperes	10	10	10	10	10	10
Voltamperes —						
Make and emergency interrupt capacity	7200	7200	7200	7200	138	138
Normal load break	720	720	720	720	138	138

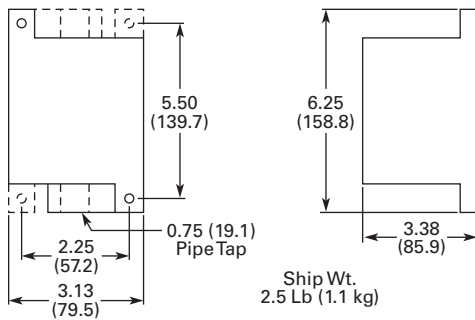
Dimensions

Approximate Dimensions in Inches (mm)

Type N Control Stations



Special Purpose Control Stations



Note

⊙ 2.38 (60.5) for neon indicating light.

Approximate Dimensions in Inches (mm)

Type H Control Stations

NEMA Type 3, 3R, 3S, 4, 4X, 13

No. of Elements	Dimensions		
	Wide	High	Deep
1 and 2	4.50 (114.3)	8.25 (209.6)	4.50 (114.3)
3	4.50 (114.3)	10.75 (273.1)	4.25 (108.0)

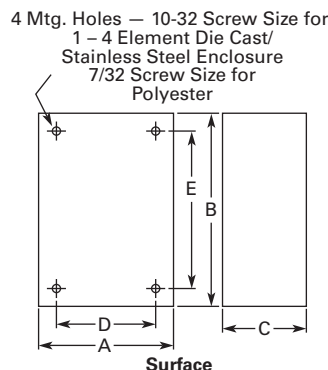
10250T and E34

Approximate Enclosure Dimensions

Number of Elements	Surface Mounting Dimensions in In (mm)			Mounting D	E	Conduit Entrance
	Wide A	High B	Deep C			
Cast						
1	3.88 (98.6)	4.00 (101.6)	3.00 (76.3)	2.69 (68.3)	3.25 (82.6)	3/4
2	3.88 (98.6)	5.88 (149.4)	3.00 (76.3)	2.69 (68.3)	5.13 (130.3)	3/4
3	3.88 (98.6)	7.75 (196.9)	3.00 (76.3)	2.69 (68.3)	7.00 (177.8)	1
4	33.88 (98.6)	9.63 (244.6)	3.00 (76.3)	2.69 (68.3)	8.88 (225.6)	1
Polyester						
1	3.81 (96.8)	6.63 (168.4)	3.38 (85.9)	2.94 (74.7)	4.88 (124.0)	①
2	3.81 (96.8)	6.63 (168.4)	3.38 (85.9)	2.94 (74.7)	4.88 (124.0)	①
3	3.81 (96.8)	8.88 (225.6)	3.38 (85.9)	2.94 (74.7)	7.13 (181.1)	①
4	3.81 (96.8)	6.63 (168.4)	3.38 (85.9)	2.94 (74.7)	4.88 (124.0)	①
Stainless Steel						
1	3.00 (76.2)	3.50 (88.9)	3.00 (76.2)	1.50 (38.1)	4.25 (108.0)	①
2	3.50 (88.9)	6.75 (171.5)	3.00 (76.2)	1.50 (38.1)	7.50 (190.5)	①
3	3.50 (88.9)	9.00 (228.6)	3.00 (76.2)	1.50 (38.1)	9.00 (228.6)	①
4	3.50 (88.9)	11.25 (285.8)	3.00 (76.2)	1.50 (38.1)	12.00 (304.8)	①

Note

① No conduit entrance holes provided. Drill as required.



16.2 mm Pushbuttons—RMQ-16



Contents

<i>Description</i>	<i>Page</i>
16.2 mm Pushbuttons—RMQ-16	
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Indicating Lights	V7-T1-28
Emergency Stops	V7-T1-29
Selector Switches—Non-Illuminated, Illuminated and Keyed	V7-T1-30
Accessories	V7-T1-34
Technical Data and Specifications	V7-T1-37
Dimensions	V7-T1-39

Product Overview

Product Description

The RMQ-16 pushbutton line offers a wide array of functional and attractively designed illuminated and non-illuminated pushbuttons, selector switches, emergency stops and indicating lights. The illuminated line is offered with either incandescent or LED. RMQ-16 devices are designed with two front-of-panel operator sizes. The 18 x 18 mm or 25 x 25 mm square operators can help the user achieve over three times the information density compared with 22 mm ranges.

Features

- *Wide product breadth:* RMQ-16 offers illuminated and non-illuminated pushbuttons, keyed, non-keyed, and illuminated selector switches, emergency stops, and a large variety of accessories
- *Custom laser etching:* Hundreds of standard markings available in addition to infinite possible custom images with laser etching
- *High durability:* Pushbuttons and selector switches rated for 3 million mechanical operations
- *High information density:* Square operators (18 mm or 25 mm) allow for side-by-side mounting and achieve over three times the information density of typical 22 mm installations
- Laser etched operators
- Heavy-duty construction with IP65 on front of panel operators
- LED or incandescent illumination available
- Front-of-panel operators available in either 18 x 18 mm or 25 x 25 mm sizes
- Safety rated emergency stops (IEC 60947-5, positively driven contacts)
- Mounting diameter 16.2 mm to EN 50007

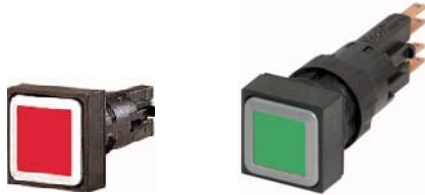
Standards and Certifications

- UL Listed
- CSA Certified
- IEC/EN 60947-5 VDE-0660
- IP65



Product Selection Guide

Pushbuttons



Description	Non-Illuminated	Illuminated
Product Selection	Page V7-T1-26	Page V7-T1-27

Indicating Lights



Description	Flush	Extended
Product Selection	Page V7-T1-28	Page V7-T1-28

Emergency Stops



Description	Non-Illuminated	Illuminated
Product Selection	Page V7-T1-29	Page V7-T1-29

Selector Switches



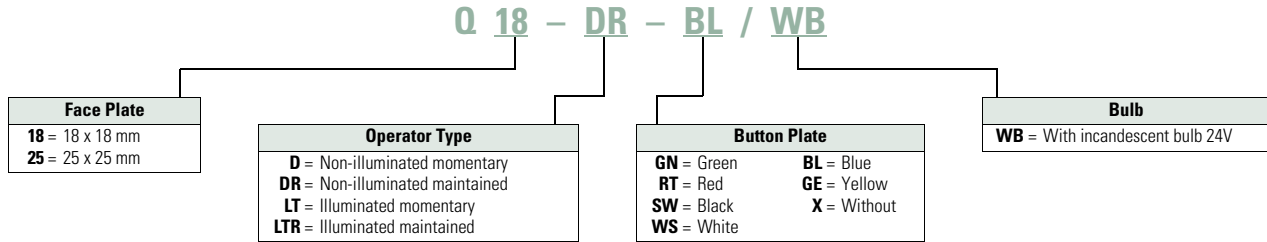
Description	Non-Illuminated	Illuminated	Keyed
Product Selection	Page V7-T1-30	Page V7-T1-31	Page V7-T1-32

1 Pushbuttons—Non-Illuminated and Illuminated

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Pushbuttons—Non-Illuminated and Illuminated



Product Selection

Non-Illuminated Pushbuttons

- Momentary or maintained
- Customizable laser etched pushbutton operators
- 18 mm or 25 mm square operator
- 3 million mechanical operations
- IEC/EN 60947-5
- IP65

Q18-D-GN



Non-Illuminated Pushbuttons

Type	Button Color	Catalog Number	
		18 x 18 mm	25 x 25 mm
Momentary	Green	Q18D-GN	Q25D-GN
	Red	Q18D-RT	Q25D-RT
	Black	Q18D-SW	Q25D-SW
	White	Q18D-WS	Q25D-WS
	Blue	Q18D-BL	Q25D-BL
	Yellow	Q18D-GE	Q25D-GE
	Without	Q18D-X ①	Q25D-X ①
Maintained	Green	Q18DR-GN	Q25DR-GN
	Red	Q18DR-RT	Q25DR-RT
	Black	Q18DR-SW	Q25DR-SW
	White	Q18DR-WS	Q25DR-WS
	Blue	Q18DR-BL	Q25DR-BL
	Yellow	Q18DR-GE	Q25DR-GE
	Without	Q18DR-X ①	Q25DR-X ①

Note

① To order separate button plates, see **Page V7-T1-36**.

Illuminated Pushbuttons

- Momentary or maintained
- LED or incandescent
- 18 mm or 25 mm square operator
- 3 million mechanical operations
- IEC/EN 60947-5
- IP65

Q18-LT-GE



Illuminated Pushbuttons Without Bulb ①

Type	Button Color	Catalog Number ②	
		18 x 18 mm	25 x 25 mm
Momentary	Green	Q18LT-GN	Q25LT-GN
	Red	Q18LT-RT	Q25LT-RT
	Black	Q18LT-SW	Q25LT-SW
	White	Q18LT-WS	Q25LT-WS
	Blue	Q18LT-BL	Q25LT-BL
	Yellow	Q18LT-GE	Q25LT-GE
Maintained	Green	Q18LTR-GN	Q25LTR-GN
	Red	Q18LTR-RT	Q25LTR-RT
	Black	Q18LTR-SW	Q25LTR-SW
	White	Q18LTR-WS	Q25LTR-WS
	Blue	Q18LTR-BL	Q25LTR-BL
	Yellow	Q18LTR-GE	Q25LTR-GE

Notes

① To order with incandescent 24V bulb, insert a **/WB** at the end of the catalog number. Example, Q18LT-GN/**WB**.

② For a complete selection of incandescent 24V bulbs and LEDs, see **Page V7-T1-34**.

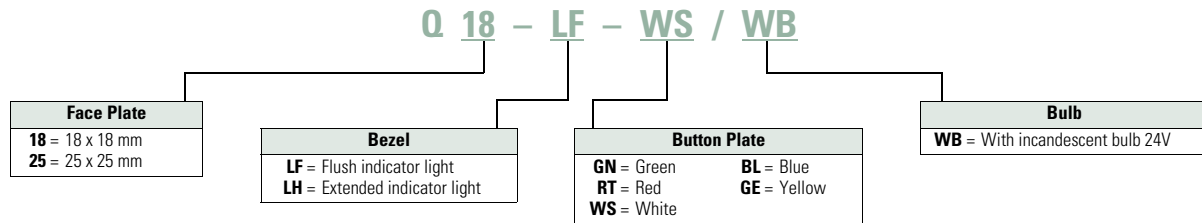
1

Indicating Lights

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Indicating Lights—Flush and Extended





Product Selection

Indicating Lights

- LED or incandescent
- Flush and extended lenses
- 18 mm or 25 mm square operator
- 3 million mechanical operations
- IEC/EN 60947-5
- IP65

Indicating Lights Without Bulb ^①

	Type	Button Color	Catalog Number ^②	
			18 x 18 mm	25 x 25 mm
Q18-LF-GE 	Flush	Green	Q18LF-GN	Q25LF-GN
		Red	Q18LF-RT	Q25LF-RT
		White	Q18LF-WS	Q25LF-WS
		Blue	Q18LF-BL	Q25LF-BL
		Yellow	Q18LF-GE	Q25LF-GE
Q18-LH-BL 	Extended	Green	Q18LH-GN	Q25LH-GN
		Red	Q18LH-RT	Q25LH-RT
		White	Q18LH-WS	Q25LH-WS
		Blue	Q18LH-BL	Q25LH-BL
		Yellow	Q18LH-GE	Q25LH-GE

Notes

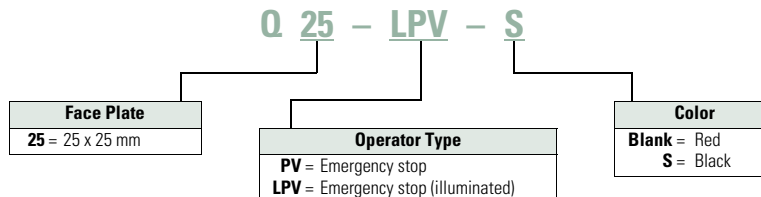
- ^① To order with incandescent 24V bulb, insert a /WB at the end of the catalog number. Example, Q18-LF-GN/WB.
- ^② For a complete selection of incandescent 24V bulbs and LEDs, see **Page V7-T1-34**.

Emergency Stops

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Emergency Stops—Non-Illuminated and Illuminated



Product Selection

Emergency Stops

- Push/pull operation
- Illuminated or non-illuminated
- Emergency stop (red) or Machine stop (black) available
- Suitable for use in safety applications
- IEC/EN 60947-5
- IP65

Q25PV



Emergency Stops—Non-Illuminated

Button Color	Catalog Number
Red	Q25PV
Black	Q25PV-S

Q25LPV



Emergency Stops—Illuminated ^①

Button Color	Catalog Number
Red	Q25LPV
Black	Q25LPV-S

Note

^① Includes built-in multiple LED 24 Vdc.

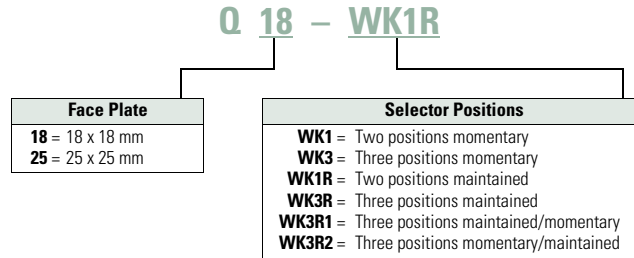
1

Selector Switches—Non-Illuminated, Illuminated and Keyed

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Selector Switches—Non-Illuminated



Product Selection

Non-Illuminated Selector Switches

- Momentary or maintained
- 18 mm or 25 mm square operator
- VS Anti-rotation feature
- 3 million mechanical operations
- IP65

Q18WK1



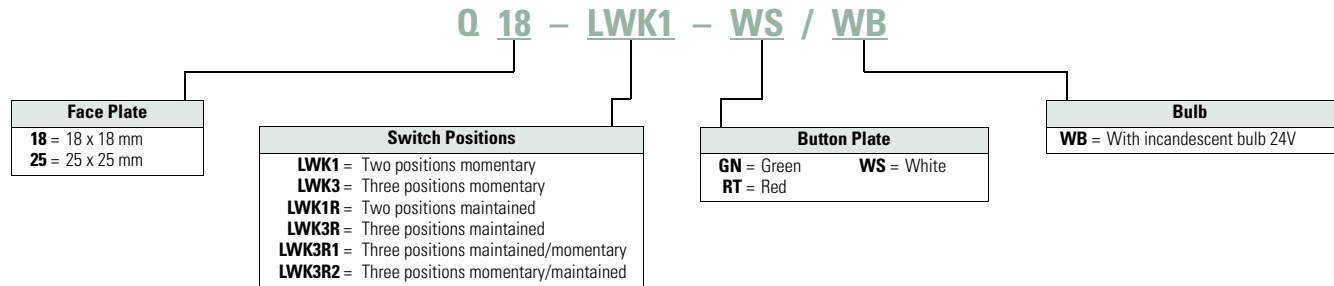
Selector Switches—Non-Illuminated

Function	Position	Switch Position	Catalog Number	
			18 x 18 mm	25 x 25 mm
Momentary	2		Q18WK1	Q25WK1
Maintained			Q18WK1R	Q25WK1R
Momentary	3		Q18WK3	Q25WK3
Maintained			Q18WK3R	Q25WK3R
Maintained/momentary			Q18WK3R1	Q25WK3R1
Momentary/maintained			Q18WK3R2	Q25WK3R2

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Selector Switches—Illuminated



Product Selection

Illuminated Selector Switches

- LED or incandescent
- Momentary or maintained
- 18 mm or 25 mm square operator
- VS Anti-rotation feature
- 3 million mechanical operations
- IP65

Q18LWK1-GN



Selector Switches—Illuminated without Bulb ①

Function	Position	Button Color	Switch Position	Catalog Number ②	
				18 x 18 mm	25 x 25 mm
Momentary	2	Green		Q18LWK1-GN	Q25LWK1-GN
		Red		Q18LWK1-RT	Q25LWK1-RT
		White		Q18LWK1-WS	Q25LWK1-WS
Maintained		Green		Q18LWK1R-GN	Q25LWK1R-GN
		Red		Q18LWK1R-RT	Q25LWK1R-RT
		White		Q18LWK1R-WS	Q25LWK1R-WS
Momentary	3	Green		Q18LWK3-GN	Q25LWK3-GN
		Red		Q18LWK3-RT	Q25LWK3-RT
		White		Q18LWK3-WS	Q25LWK3-WS
Maintained		Green		Q18LWK3R-GN	Q25LWK3R-GN
		Red		Q18LWK3R-RT	Q25LWK3R-RT
		White		Q18LWK3R-WS	Q25LWK3R-WS
Maintained/ momentary		Green		Q18LWK3R1-GN	Q25LWK3R1-GN
		Red		Q18LWK3R1-RT	Q25LWK3R1-RT
		White		Q18LWK3R1-WS	Q25LWK3R1-WS
Momentary/ maintained		Green		Q18LWK3R2-GN	Q25LWK3R2-GN
		Red		Q18LWK3R2-RT	Q25LWK3R2-RT
		White		Q18LWK3R2-WS	Q25LWK3R2-WS

Notes

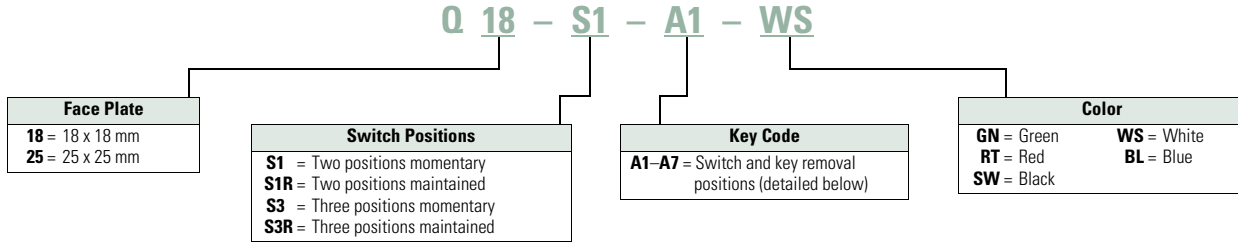
- ① To order with incandescent 24V bulb, insert a /WB at the end of the catalog number. Example, Q18LWK1-GN/WB.
- ② For a complete selection of incandescent 24V bulbs and LEDs, see Page V7-T1-34.

1

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Keyed Selector Switches—Two- and Three-Position



Product Selection

Keyed Selector Switches

- 5 color options
- Momentary or maintained
- 18 mm or 25 mm square operator
- VS Anti-rotation feature
- 3 million mechanical operations
- IP65

Q18S1



Keyed Selector Switches—Two-Position

Function	Button Color	Switch Position	Key Removal Position ①	Catalog Number	
				18 x 18 mm	25 x 25 mm
Momentary	Black	↓	0	Q18S1	Q25S1
Maintained	Black	↙	0	Q18S1R	Q25S1R
Maintained	Black	↘	0	Q18S1R-A1	Q25S1R-A1

Keyed Selector Switches—Three-Position

Function	Button Color	Switch Position	Key Removal Position ①	Catalog Number	
				18 x 18 mm	25 x 25 mm
Momentary	Black	↕	0	Q18S3	Q25S3
Maintained		↓	0, II	Q18S3R	Q25S3R
Maintained		↓	0	Q18S3R-A1	Q25S3R-A1
		↓	I, 0	Q18S3R-A2	Q25S3R-A2
		↓	0, II	Q18S3R-A3	Q25S3R-A3
Maintained/momentary		↙	I, 0	Q18S3R-A4	Q25S3R-A4
		↙	0	Q18S3R-A5	Q25S3R-A5
Momentary/maintained		↘	0, II	Q18S3R-A6	Q25S3R-A6
		↘	0	Q18S3R-A7	Q25S3R-A7

Note

- ① I = Key is removed at the left.
- 0 = Key is removed at the center.
- II = Key is removed at the right.

Q18S1-BL



Keyed Selector Switches, Multicolor—Two-Position

Function	Button Color	Switch Position	Key Removal Position ①	Catalog Number	
				18 x 18 mm	25 x 25 mm
Momentary	Green		0	Q18S1-GN	Q25S1-GN
	Red			Q18S1-RT	Q25S1-RT
	White			Q18S1-WS	Q25S1-WS
	Blue			Q18S1-BL	Q25S1-BL
Maintained	Green		0	Q18S1R-GN	Q25S1R-GN
	Red			Q18S1R-RT	Q25S1R-RT
	White			Q18S1R-WS	Q25S1R-WS
	Blue			Q18S1R-BL	Q25S1R-BL

Q18S3-RT



Keyed Selector Switches, Multicolor—Three-Position

Function	Button Color	Switch Position	Key Removal Position ①	Catalog Number	
				18 x 18 mm	25 x 25 mm
Momentary	Green		0	Q18S3-GN	Q25S3-GN
	Red			Q18S3-RT	Q25S3-RT
	White			Q18S3-WS	Q25S3-WS
	Blue			Q18S3-BL	Q25S3-BL
Maintained	Green		0, II	Q18S3R-GN	Q25S3R-GN
	Red			Q18S3R-RT	Q25S3R-RT
	White			Q18S3R-WS	Q25S3R-WS
	Blue			Q18S3R-BL	Q25S3R-BL

Note

- ① I = Key is removed at the left.
- 0 = Key is removed at the center.
- II = Key is removed at the right.

Accessories

E10



Contact Elements

Feature	Catalog Number
Normally open (N/O)	E10

E01



Normally closed (N/C)	E01
-----------------------	-----

SRA10



Screw Adapter

Feature	Catalog Number
Normally open (N/O)	SRA10
Normally closed (N/C)	SRA01
Lamp sockets	SRAL

WBGL6



Incandescent 24V Bulbs

Voltage	Current	Color	Catalog Number
6V	1W	White	WBGL6
12V			WBGL12
24–28V			WBGL24

WBLED-GN6



LEDs (AC/DC)

Voltage	Current	Color	Catalog Number
Multiple Chip LED			
6V	45 mA	Green	WBLED-GN6
12V	24 mA		WBLED-GN12
6V	45 mA	Red	WBLED-RT6
12V	24 mA		WBLED-RT12
6V	45 mA	Yellow	WBLED-GE6
12V	24 mA		WBLED-GE12
Single Chip LED ①			
18–30V	7–12.5 mA	Green	LEDWB-G
		Red	LEDWB-R
		White	LEDWB-W
		Blue	LEDWB-B
		Yellow	LEDWB-Y

ISH2,8



Insulated Ferrule

Description	Catalog Number
Insulated ferrule	ISH2,8

R16-MS



Combination Box Spanner

Description	Catalog Number
Mounting ring tool	16-MS

VS



Anti-Rotation Tab

Description	Catalog Number
Guard ring	VS

E8-SW



Housing

Description	Color	Catalog Number
Surface mount enclosure	White	I8
Flush mount panel	White	E8
	Black	E8-SW

Q18BS



Blanking Plug

Size	Catalog Number
18 x 18 mm	Q18BS
25 x 25 mm	Q25BS

Q25AGR



Cover Plate

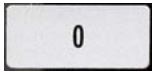
Size	Color	Catalog Number
25 x 38 mm	Black	Q25AS
	Gray	Q25AGR

Note

① Positive pole to X1. Integral suppressor circuit up to 1000V.

Q2SQ25

Insert Plate



Size	Color	Catalog Number
10 x 22 mm	BLANK	Q2SQ25

Q25TS-X

Legend Plate



Size	Color	Catalog Number
25 x 38 mm	Black	Q25TS-X
	Gray	Q25TGR-X

Q25TS_

Legend Plate—Complete



Size	Etching	Catalog Number
25 x 38	START	Q25TS-111
	STOP	Q25TS-110
	FAULT	Q25TS-250
	HAND 0 AUTO	Q25TS-197
	MAN 0 AUTO	Q25TS-397
	0	Q25TS-10
	1	Q25TS-11
	0 1	Q25TS-90
	1 0 11	Q25TS-93

SQT11

Emergency Stop Labels



Type	Feature	Catalog Number
Square	4 Languages	SQT11
	Blank	SQT-GE

SRT11



Circle	4 Languages	SRT11
	Blank	SRT-GE

Extra Keys

ES16



Codes for Extra Keys

Color	Catalog Number
Green	ES16-GN
Red	ES16-RT
Black	ES16
White	ES16-WS
Blue	ES16-BL

Button Plates



Button Plates

Type	Color	Etching	Catalog Number
18 x 18 mm	Black	—	01TQ18
		CUSTOM	01TQ18-ETCH
			21TQ18
			19TQ18
	White	—	02TQ18
		CUSTOM	02TQ18-ETCH
			20TQ18
	Green	—	03TQ18
		CUSTOM	03TQ18-ETCH
			11TQ18
	Red	—	04TQ18
		CUSTOM	04TQ18-ETCH
			10TQ18
	Yellow	—	05TQ18
		CUSTOM	05TQ18-ETCH
	Blue	—	06TQ18
CUSTOM		06TQ18-ETCH	

Type	Color	Etching	Catalog Number
25 x 25 mm	Black	—	01TQ25
		CUSTOM	01TQ25-ETCH
			21TQ25
			19TQ25
	White	—	02TQ25
		"STOP"	112TQ25
		"ON"	221TQ25
	White	—	02TQ25
		CUSTOM	02TQ25-ETCH
			20TQ25
	Green	—	03TQ25
		CUSTOM	03TQ25-ETCH
		"START"	111TQ25
			11TQ25
	Red	—	04TQ25
		CUSTOM	04TQ25-ETCH
"STOP"		110TQ25	
		10TQ25	
Yellow	—	05TQ25	
	CUSTOM	05TQ25-ETCH	
	"OFF"	217TQ25	
Blue	—	06TQ25	
	CUSTOM	06TQ25-ETCH	

Instructions for Ordering Laser Incriptions

1. Identify part number to be inscribed.
2. Pick symbol from library and identify suffix code associated with the symbol.
3. Order part number already listed in the catalog with -ETCH suffix.
4. When placing an order by fax or Vistaline on the web, reference order item number and indicate appropriate symbol code or desired text.

Example

To order a 25 mm green flush button plate with the inscription AUTO HAND:

Order Catalog Number **03TQ25-ETCH**.

AUTO HAND inscription is found on **Page V7-T1-127** in the M22 Symbols Library, suffix code is **X91**. In the order notes, reference item number and suffix **X91**.

Note: For a complete list of available symbols, see **Pages V7-T1-124 to V7-T1-130**, M22 Symbols Library.

Technical Data and Specifications

RMQ-16

Description	Unit	Specification Contact Elements	Illuminated Pushbutton Operators (Maintained)	Illuminated Selector Switches	Indicating Lights
General Technical Data					
Standards					UL, CSA, IEC/EN 60 947, VDE 0660, CE
Lifespan, mechanical (operations)	x 10 ⁵	100	30 (3)	3	—
Maximum operating frequency	Ops/h	3600	3600 (1800)	1800	—
Operating force	N	3	4	—	—
Operating torque	Nm		—	≤ 0.2	—
Degree of protection to IEC/EN 60 529		IP20 with ISH2,8	IP65	IP65	IP65
Climatic proofing			Damp heat, constant, to IEC 60 068-2-3/Damp heat, cyclical, to IEC 60 068-2-30		
Ambient temperature					
Open	°C	–25 to 60	–25 to 60	–25 to 60	–25 to 60
Enclosed	°C	–25 to 40	–25 to 40	–25 to 40	–25 to 40
Mounting position		As required	As required	As required	As required
Mechanical shock resistance to IEC 60 068-2-27 (half-sinusoidal shock, duration 11 ms)	g	40	40	40	40
Terminal capacity (min./max.)	mm ²	0.5/1.0	0.5/1.0	0.5/1.0	0.5/1.0
Blade terminal			2.8 mm x 0.8 mm to DIN 46 244		
Ferrule			2.8 mm x 0.8 mm to DIN 46 247 and IEC 60 760		
Dimensions		See Page V7-T1-39	See Page V7-T1-39	See Page V7-T1-39	See Page V7-T1-39
Contacts					
Rated impulse withstand voltage U_{imp}	V	4000	800	800	800
Rated insulation voltage U_i	V	250	250	250	250
Overvoltage category/pollution degree		III/3	III/3	III/3	III/3
Rated operational voltage U_e (max.)	V	250	24	24	24
Rated operational current I_e (max.)	A	4	—	—	—
Control circuit reliability at					
24 Vdc/5 mA (Fault probability Hr)			<10 ⁻⁷ , <1 fault in 10 ⁷ operations		
5 Vdc/1 mA (Fault probability Hr)			<5 x 10 ⁻⁶ , < fault in 5 x 10 ⁶ operations		
Use of insulated ferrule ISH 2.8					
From U_e		>24 Vac/dc recommended	>24 Vac/dc recommended	>24 Vac/dc recommended	>24 Vac/dc recommended
From U_e			>50 Vac or 120 Vdc is mandatory, even on unused blade terminals		
Maximum short-circuit protective device					
Fuseless	Type	FAZ-B6	—	—	—
Fuse	A gG/gL	10	—	—	—
Switching Capacity					
Rated operational current I_e					
AC-15					
24V	A	4	—	—	—
48V	A	4	—	—	—
110V	A	4	—	—	—
230V	A	4	—	—	—
DC-13					
24V	A	3	—	—	—
42V	A	1.0	—	—	—
60V	A	0.8	—	—	—
110V	A	0.5	—	—	—
220V	A	0.2	—	—	—
UL/CSA Data					
		UL listed File No. E 29 184, Guide No. NKCR/CSA certified File No. 46 552 Class No. 321103			
Blade terminal		0.110 x 0.032 in	0.110 x 0.032 in	0.110 x 0.032 in	0.110 x 0.032 in
Fast-on connector		0.110 x 0.032 in AMP #60 197-1, 62 050-1 or equivalent			
Rated voltage maximum AC	Vac	300	24	24	24
Contact rating code AC	E10/E01	C300/Q300	—	—	—
Thermal continuous test current	A	2.5	—	—	—
Rated voltage maximum DC	Vdc	300	—	—	—
Contact rating code DC	E10/E01	C300/R300	—	—	—
Thermal continuous test current	A	2.5	—	—	—

1.3

Pushbuttons and Indicating Lights

16.2 mm Pushbuttons—RMQ-16

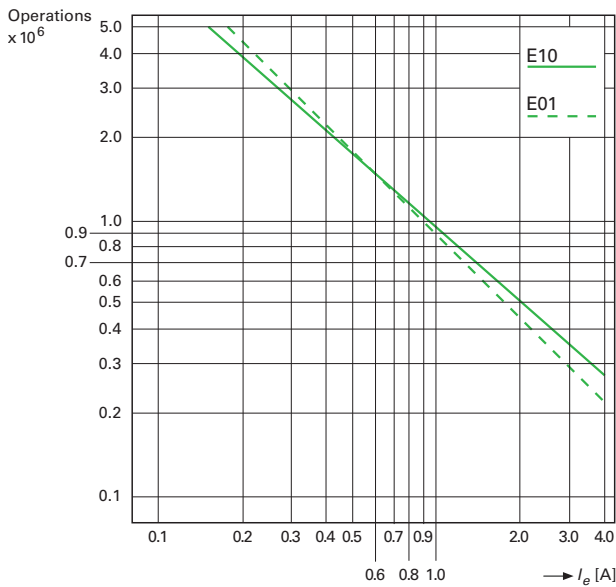
1

RMQ-16, continued

Description	Unit	Specification			Emergency Stop Operators	Emergency Stop Operators (Illuminated) ①
		Pushbutton Operators (Maintained)	Selector Switches	Key-Released Operators		
General Technical Data						
Standards					UL, CSA, IEC/EN 60 947, VDE 0660, CE	
Lifespan, mechanical (operations)	x 10 ⁵	30 (3)	3	3	0.5	0.5
Maximum operating frequency	Ops/h	3600 (1800)	1800	1800	600	600
Operating force	N	4	—	—	25	25
Operating torque	Nm	—	≤ 0.2	≤ 0.4	—	—
Degree of protection to IEC/EN 60 529		IP65	IP65	IP65	IP65	IP65
Climatic proofing					Damp heat, constant, to IEC 60 068-2-3 Damp heat, cyclical, to IEC 60 068-2-30	
Ambient temperature						
Open	°C	–25 to 60	–25 to 60	–25 to 60	–25 to 60	–25 to 60
Enclosed	°C	–25 to 40	–25 to 40	–25 to 40	–25 to 40	–25 to 40
Mounting position		As required	As required	As required	As required	As required
Mechanical shock resistance to IEC 60 068-2-27 (half-sinusoidal shock, duration 11 ms)	g	40	40	40	40	40
Terminal capacity (min./max.)	mm ²	—	—	—	—	0.5/1.0
Blade terminal		—	—	—	—	2.8 x 0.8 mm
Ferrule		—	—	—	—	2.8 x 0.8 mm
Dimensions		See Page V7-T1-39	See Page V7-T1-39	See Page V7-T1-39	See Page V7-T1-39	See Page V7-T1-39

Lifespan, Electrical AC-15 to IEC/EN 60 947-5-1 at 230V

I_e = Rated operational current



Note

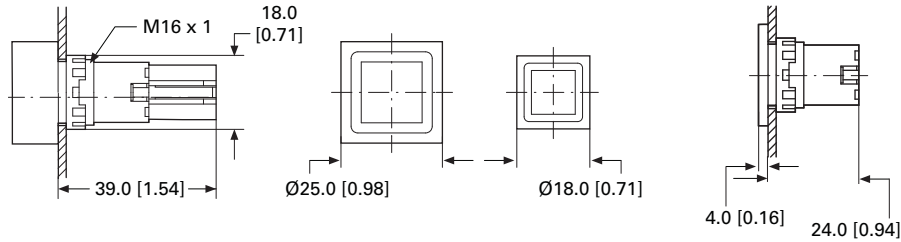
① See illuminated selector switches on Page V7-T1-31 for contact values.

Dimensions

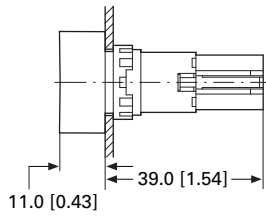
Approximate Dimensions in mm [in]

Actuating and Indicator Elements

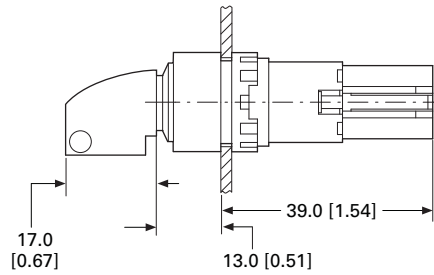
Square Style



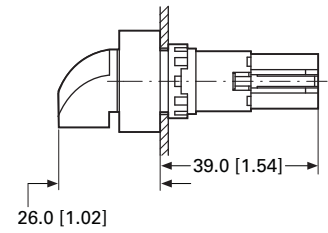
Q...D_-, Q...DR_-



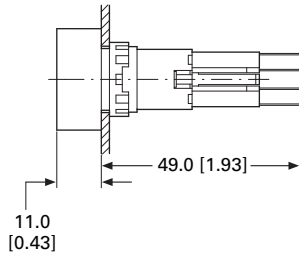
Q...S_



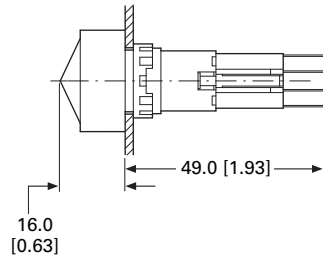
Q...WK_



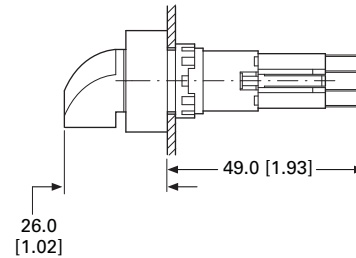
Q...LT_-, Q...LTR_-, Q...LF_-



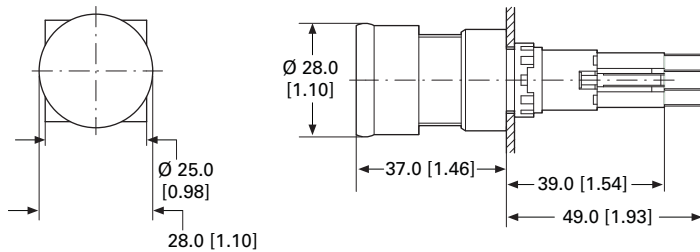
Q...LH_



Q...LWK_



Q25PV_-, Q25LPV_



1.3

Pushbuttons and Indicating Lights

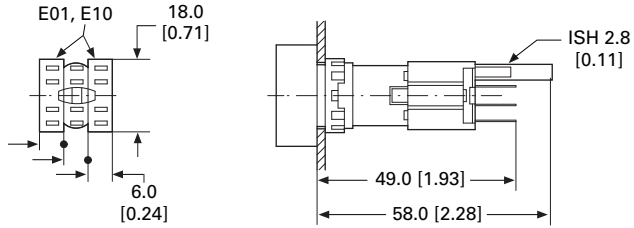
16.2 mm Pushbuttons—RMQ-16

1

Approximate Dimensions in mm [in]

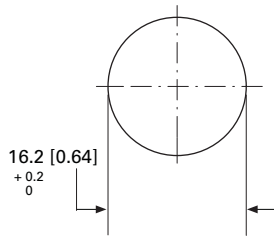
Front Fixing

Q18, Q25, E89, SRA, VS, M16



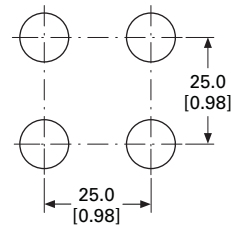
Drilling Dimensions

Drilling



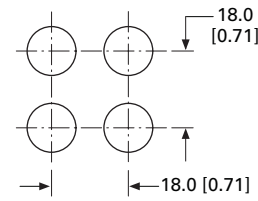
Grid Dimension to IEC/EN 60947

Q25



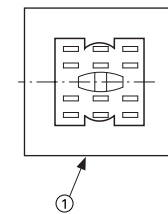
Minimum Grid Spacing Dimension

Q18



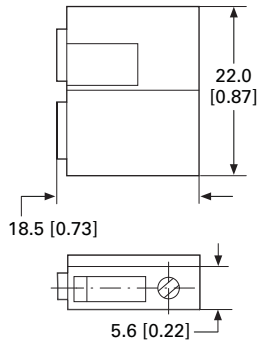
Mounting Distance

Mounting



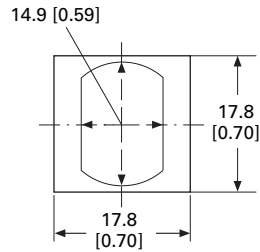
RMQ Screw Adapter

SRA_



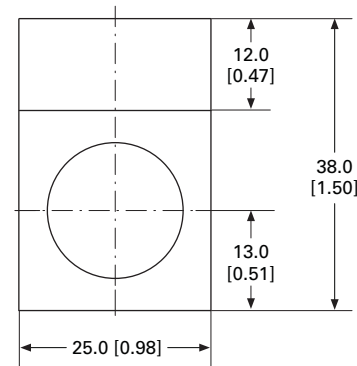
Anti-Rotation Feature

VS



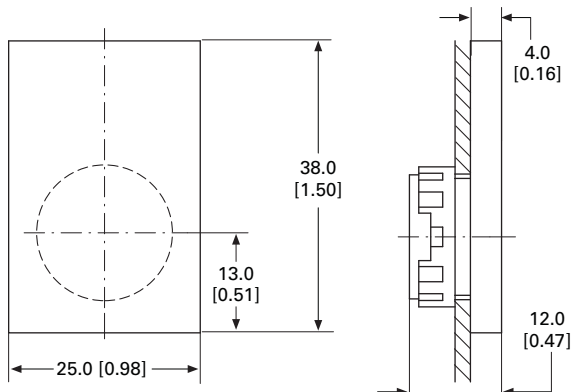
RMQ-16 Label Mount

Q25TS_



Blanking Plates

Q25AS



Note

① Exposed conductive part (metal).

22.5 mm RMQ-Titan Modular Pushbuttons—M22



Contents

Description

	<i>Page</i>
22.5 mm RMQ-Titan Modular Pushbuttons—M22	
Product Selection Guide	V7-T1-42
Accessories	V7-T1-105
Coding Adapter Guide	V7-T1-112
Technical Data and Specifications	V7-T1-113
Dimensions	V7-T1-117
Symbols Library.	V7-T1-123



Product Description

Eaton's M22 industrial heavy-duty pushbutton line offers a wide array of functional, attractive and ergonomically designed illuminated and non-illuminated pushbuttons, selector switches, push-pulls, alternate action and twist-to-release operators. The complete illuminated line is only offered in LED light units to ensure high-quality brightness and up to 100,000 hours of LED illumination. M22 operators are available with either a silver or black nylon colored or chrome metal bezel. The space-saving modular construction of the M22 line makes on-the-job assembly fast and simplifies the stocking of both components and complete devices.

NEW

Eaton has expanded M22 pilot devices with a metal bezel option. The new M22M pushbutton is an elegant chrome metal bezel that is attractive, durable and rugged for heavy-duty environments. M22M devices are configurable and complement components within the M22 line.

Highly Modular and Versatile Line

- Field convertible functions (pushbuttons and selector switches), maintained to momentary
- Customizable laser engraving capabilities

LED Indicators

- 100,000 hours of life in high-vibration environments
- Lenses specifically designed for LED illumination
- Multi-color LED in the flat contact family allows versatility in design and reduces installation costs and footprint

Rugged Design

- Most pushbutton operators and contact blocks exceed 5 million mechanical operations
- All components have IP66 rating, and some carry IP67 and IP69K for washdown environment; see **Page V7-T1-113** for further technical data

Innovative Technologies

- ASi communicating devices
- Palm switches

Standards and Certifications

All operators and components are IEC/EN 60947 VDE 0660.

All operators carry an IP66 rating with some rated for washdown environment with IP67 and IP69K.

All pushbuttons, emergency-stops, indicating lights, potentiometers and selector switches carry NEMA 4X, 13.

Marine classification societies: Bureau Veritas (BV), Germanischer Lloyd (GL), and Lloyd's Register of Shipping (LR) approved.



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Features

- Field convertible pushbuttons and mushroom operators from maintained to momentary status
- Field convertible selector switches from momentary to maintained operation and vice versa
- LED offering only for all illuminated operators
- Laser engraved pushbuttons, lenses and enclosures
- Heavy-duty construction with a minimum of IP66 and UL NEMA® type 4X / 13 on front of panel operators. Many operators even carry IP67 and IP69K, for the toughest applications
- Silver, black or chrome metal bezel now available
- Snap-lock contact blocks and light units for front or base mounting
- Notched hole mounting with anti-rotation tab and central nut mounting on each operator
- Over 5 million mechanical operations and 1.6 million electrical (reference specification sheet)
- Direct opening action normally closed contacts
- Unique and innovative offerings, such as four-way pushbuttons and USB/ RJ45 bulkhead interfaces
- Screw or spring-cage terminals

Benefits

- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Field convertibility of operator status for pushbuttons and selector switches helps distributors and customers reduce inventory and increase functionality
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Plastic construction is corrosion resistant. Operators are designed for rugged environments, ideal for washdown applications (reference each operator's IP ratings and IEC/EN 60529 for ingress protection definition)
- Anti-rotation tab saves installation time and prevents operator rotation
- High mechanical and electrical life allows for use in tough and challenging applications
- Laser inscription capabilities allow for high-quality, wear-resistant markings
- All normally closed (NC) contacts are direct opening action, i.e., NC contacts are physically forced open by direct linkage with the pushbutton operator in the unlikely event of contact weld
- Some M22 operators are capable of communication via ASi protocol
- M22 offers USB and RJ45 connections

Product Selection Guide

Pushbuttons



Description	Non-illuminated, flush		Non-illuminated, extended		Illuminated, flush		Illuminated, extended	
Operator	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained
Product Selection	Pages V7-T1-47 to V7-T1-49	Pages V7-T1-50, V7-T1-51	Pages V7-T1-52, V7-T1-53	Pages V7-T1-54, V7-T1-55	Pages V7-T1-57 to V7-T1-59	Pages V7-T1-60, V7-T1-61	Pages V7-T1-62, V7-T1-63	Pages V7-T1-64, V7-T1-65

Indicating Lights



Description	Flat	Conical
Product Selection	Pages V7-T1-66, V7-T1-67	Pages V7-T1-66, V7-T1-67

Emergency Stops



Description	Non-illuminated	Illuminated	Key release	Mechanical indication
Product Selection	Page V7-T1-69	Page V7-T1-69	Page V7-T1-70	Page V7-T1-70

Selector Switches



Description	Non-illuminated knob type	Non-illuminated rotary type	Illuminated	Key-operated
Product Selection	Pages V7-T1-74, V7-T1-75	Pages V7-T1-76, V7-T1-77	Pages V7-T1-79 to V7-T1-81	Pages V7-T1-82 to V7-T1-85

Mushroom Head Pushbuttons



Description	Non-illuminated	Non-illuminated
Operator	Momentary	Maintained
Product Selection	Pages V7-T1-88, V7-T1-89	Pages V7-T1-90, V7-T1-91

Double Pushbuttons



Description	Extended pushbuttons and center light	Flush top and center light, extended bottom	Flush pushbuttons and center light
Operator	Momentary	Momentary	—
Product Selection	Page V7-T1-93	Page V7-T1-94	Page V7-T1-94

Four-Way Pushbuttons



Description	Non-interlocked	Interlocked
Operator	Momentary	Maintained
Product Selection	Page V7-T1-97	Page V7-T1-97

Joysticks



Description	Joysticks
Product Selection	Page V7-T1-98

Potentiometers



Description	Potentiometers
Product Selection	Page V7-T1-100

Acoustic Devices



Description	Acoustic devices
Product Selection	Page V7-T1-100

Through-the-Door Operators



Description	Through-the-door operators
Product Selection	Page V7-T1-101

Bulkhead Interfaces



Description	Bulkhead interfaces
Product Selection	Page V7-T1-101

ASi Adapter Modules



Description	ASi adapter modules
Product Selection	Page V7-T1-102

Palm Switches



Description	Palm switches
Product Selection	Page V7-T1-103

Assembled Control Stations



Description	Assembled control stations
Product Selection	Page V7-T1-10

M22_



Point-of-Purchase Units

Color	Type	Contact Configuration ^①	Catalog Number
Black	Flush momentary	NO/NC	M22-D-S-K11-P
Red	Extended momentary	NO/NC	M22-DH-R-K11-P
Green	Flush momentary	NO/NC	M22-D-G-K11-P
Red	Ext. illuminated (12–30V) momentary	NO/NC	M22-DLH-R-K11-R-P
Red	Ext. illuminated (85–264V) momentary	NO/NC	M22-DLH-R-K11-230R-P
White	Flush illuminated (12–30V) maintained	NO/NC	M22-DRL-W-K11-W-P
White	Flush illuminated (85–264V) maintained	NO/NC	M22-DRL-W-K11-230W-P
Red	Indicating light (12–30V)	—	M22-L-R-R-P
Green	Indicating light (12–30V)	—	M22-L-G-G-P
Red	Indicating light (85–264V)	—	M22-L-R-230R-P
Green	Indicating light (85–264 Vac)	—	M22-L-G-230G-P
Red	Twist-to-release E-stop	1NO/2NC	M22-PVT-K12-P
Red	Illuminated (12–30V) push-pull E-stop	1NO/2NC	M22-PVL-K12-R-P
Red	Illuminated (85–264V) push-pull E-stop	1NO/2NC	M22-PVL-K12-230R-P
—	Two-position maintained V selector switch	NO/NC	M22-WKV-K11-P
—	Three-position momentary selector switch	NO/NC	M22-WK3-K22-P

Note

① All NC contact blocks are positively driven contact. ⊖

Pushbuttons—Non-Illuminated and Illuminated



Contents

Description

Page

Pushbuttons—Non-Illuminated and Illuminated	
Non-Illuminated, Flush, Momentary	V7-T1-47
Non-Illuminated, Flush, Maintained	V7-T1-50
Non-Illuminated, Extended, Momentary	V7-T1-52
Non-Illuminated, Extended, Maintained	V7-T1-54
Illuminated, Flush, Momentary	V7-T1-57
Illuminated, Flush, Maintained	V7-T1-60
Illuminated, Extended, Momentary	V7-T1-62
Illuminated, Extended, Maintained	V7-T1-64

Pushbuttons—Non-Illuminated and Illuminated

Product Description

Eaton’s M22 pushbutton line is a complete, modular and versatile offering. From field-convertible maintained operators to customizable laser engraved buttons, the M22 pushbutton line provides endless opportunity for flexibility and reduced inventory. Each operator type provides options for ordering as complete or component parts allowing for a perfect fit for each application. All of this flexibility comes in a very rugged design.

Features

- Field convertible from maintained to momentary (available on maintained pushbuttons only)
- Customizable laser engraving on all buttons
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than five million mechanical operations on momentary and 1 million on maintained pushbuttons
- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Capable of communicating via ASi protocol with ASi adapter modules

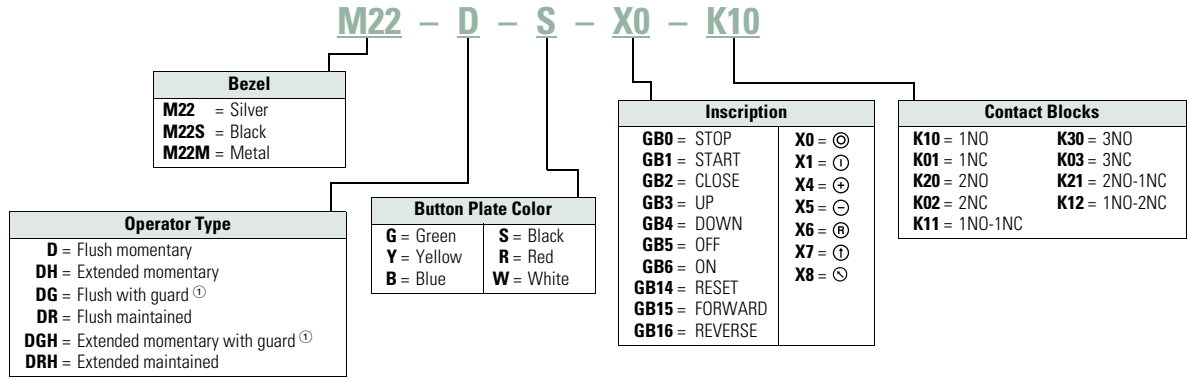
Protection Type

- IP67, IP69K
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Pushbuttons



Product Selection

Non-Illuminated Pushbuttons, Flush, Momentary

M22-D-G-K10



M22S-D-G-K10



M22M-D-G-K10



Complete Devices

Button Color	Contact Block Configuration ^①	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	NO	M22-D-S-K10	M22S-D-S-K10	M22M-D-S-K10
	NC	M22-D-S-K01	M22S-D-S-K01	M22M-D-S-K01
	2NO	M22-D-S-K20	M22S-D-S-K20	M22M-D-S-K20
	2NC	M22-D-S-K02	M22S-D-S-K02	M22M-D-S-K02
	1NO-1NC	M22-D-S-K11	M22S-D-S-K11	M22M-D-S-K11
Red	NO	M22-D-R-K10	M22S-D-R-K10	M22M-D-R-K10
	NC	M22-D-R-K01	M22S-D-R-K01	M22M-D-R-K01
	2NO	M22-D-R-K20	M22S-D-R-K20	M22M-D-R-K20
	2NC	M22-D-R-K02	M22S-D-R-K02	M22M-D-R-K02
	1NO-1NC	M22-D-R-K11	M22S-D-R-K11	M22M-D-R-K11
Green	NO	M22-D-G-K10	M22S-D-G-K10	M22M-D-G-K10
	NC	M22-D-G-K01	M22S-D-G-K01	M22M-D-G-K01
	2NO	M22-D-G-K20	M22S-D-G-K20	M22M-D-G-K20
	2NC	M22-D-G-K02	M22S-D-G-K02	M22M-D-G-K02
	1NO-1NC	M22-D-G-K11	M22S-D-G-K11	M22M-D-G-K11

Note

^① All NC contact blocks are positively driven contact. ☉

1

Non-Illuminated Pushbuttons, Flush, Momentary

M22-D-G



Operators Only ^①

Button Color	Inscription	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	—	M22-D-S	M22S-D-S	M22M-D-S
Red	—	M22-D-R	M22S-D-R	M22M-D-R
	STOP	M22-D-R-GB0	M22S-D-R-GB0	—
	Ⓢ	M22-D-R-X0	M22S-D-R-X0	M22M-D-R-X0
Green	—	M22-D-G	M22S-D-G	M22M-D-G
	START	M22-D-G-GB1	M22S-D-G-GB1	M22M-D-G-GB1
	Ⓛ	M22-D-G-X1	M22S-D-G-X1	M22M-D-G-X1
White	—	M22-D-W	M22S-D-W	M22M-D-W
Blue	—	M22-D-B	M22S-D-B	M22M-D-B
Yellow	—	M22-D-Y	M22S-D-Y	M22M-D-Y
—	—	M22-D-X-SRG ^②	M22S-D-X-SRG ^②	M22M-D-X-SRG ^②
—	—	M22-D-X-SWRGYB ^③	M22S-D-X-SWRGYB ^③	M22M-D-X-SWRGYB ^③

M22S-D-G



M22M-D-G



M22-DG-G



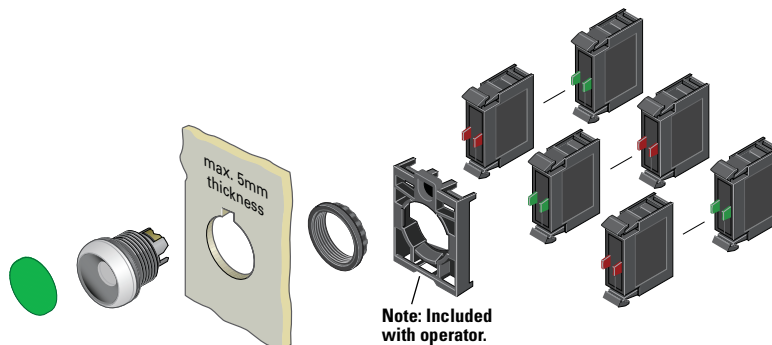
Silver Guarded

Button Color	Inscription	Silver Bezel Catalog Number
Black	—	M22-DG-S
Red	—	M22-DG-R
Green	—	M22-DG-G
White	—	M22-DG-W
Blue	—	M22-DG-B
Yellow	—	M22-DG-Y
—	—	M22-DG-X-SRG ^②
—	—	M22-DG-X-SWRGYB ^③

Notes

- ^① Includes contact block mounting adapter.
- ^② Buttonless operator comes with three color buttons (black, red, green).
- ^③ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).

Non-Illuminated Pushbuttons, Flush, Momentary



Components

M22-XD-G



Button Plates ^①

Color	Inscription	Catalog Number
Black	—	M22-XD-S ^②
	Custom	M22-XD-S-ETCH ^③
	STOP	M22-XD-S-GB0
	START	M22-XD-S-GB1
	CLOSE	M22-XD-S-GB2
	UP	M22-XD-S-GB3
	DOWN	M22-XD-S-GB4
	OFF	M22-XD-S-GB5
	ON	M22-XD-S-GB6
	TEST	M22-XD-S-GB9
	FORWARD	M22-XD-S-GB15
	REVERSE	M22-XD-S-GB16
	RAISE	M22-XD-S-GB17
	LOWER	M22-XD-S-GB18
	⊙	M22-XD-S-X0
	⓪	M22-XD-S-X1
	Ⓛ	M22-XD-S-X2
	+	M22-XD-S-X4
−	M22-XD-S-X5	
Ⓛ	M22-XD-S-X7	
Red	—	M22-XD-R ^②
	Custom	M22-XD-R-ETCH ^③
	STOP	M22-XD-R-GB0
	OFF	M22-XD-R-GB5
	⊙	M22-XD-R-X0
Green	—	M22-XD-G ^②
	Custom	M22-XD-G-ETCH ^③
	START	M22-XD-G-GB1
	ON	M22-XD-G-GB6
	⓪	M22-XD-G-X1
Blue	—	M22-XD-B ^②
	Custom	M22-XD-B-ETCH ^③
	RESET	M22-XD-B-GB14
	Ⓡ	M22-XD-B-X6
White	—	M22-XD-W ^②
	Custom	M22-XD-W-ETCH ^③
	START	M22-XD-W-GB1
Yellow	—	M22-XD-Y ^②
	Custom	M22-XD-Y-ETCH ^③
Black, red, green	—	M22-XD-SRG
Black, white, red, green, yellow, blue	—	M22-XD-SWRGYB

Buttonless Operator



Silver Guarded



Silver Bezel
Catalog Number ^④

M22-DG-X

Contact Blocks ^①

M22-K10



M22-FK01



Terminal Type	Contact Configuration ^⑤	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑥
	NO	M22-FK10 ^⑥

Notes

- ① For complete listing of available button plates and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ② Minimum order quantity of (10).
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-123 to V7-T1-130) into the Order Notes. For example, M22-XD-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ④ Includes contact block mounting adapter.
- ⑤ All NC contact blocks are positively driven contact. ⊖
- ⑥ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Non-Illuminated Pushbuttons, Flush, Maintained ^①

M22-DR-S



M22S-DR-S



M22M-DR-S

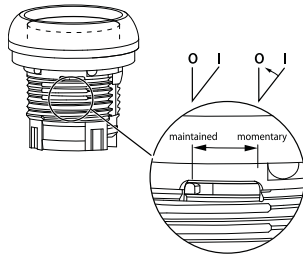


Operators Only ^②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	M22-DR-S	M22S-DR-S	M22M-DR-S
Red	M22-DR-R	M22S-DR-R	M22M-DR-R
Green	M22-DR-G	M22S-DR-G	M22M-DR-G
White	M22-DR-W	M22S-DR-W	M22M-DR-W
Blue	M22-DR-B	M22S-DR-B	M22M-DR-B
Yellow	M22-DR-Y	M22S-DR-Y	M22M-DR-Y
③	M22-DR-X-SRG	M22S-DR-X-SRG	M22M-DR-X-SRG
④	M22-DR-X-SWRGYB	M22S-DR-X-SWRGYB	M22M-DR-X-SWRGYB

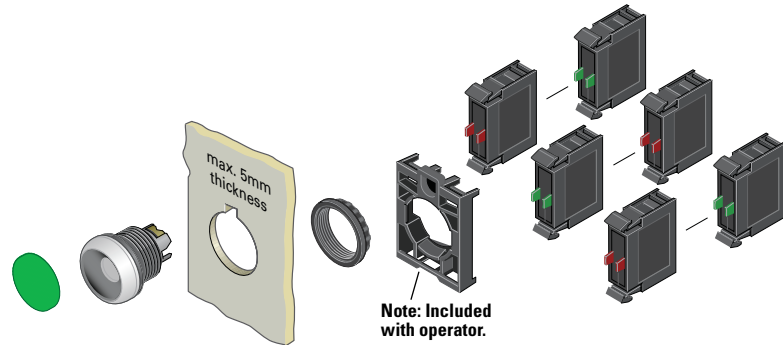
Notes

- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② Includes contact block mounting adapter.
- ③ Buttonless operator comes with three color buttons (black, red, green).
- ④ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

Non-Illuminated Pushbuttons, Flush, Maintained ^①



Components

M22-XD-S



Button Plates ^②

Color	Inscription	Catalog Number
Black	—	M22-XD-S ^③
	Custom	M22-XD-S-ETCH ^④
	STOP	M22-XD-S-GB0
	START	M22-XD-S-GB1
	CLOSE	M22-XD-S-GB2
	UP	M22-XD-S-GB3
	DOWN	M22-XD-S-GB4
	OFF	M22-XD-S-GB5
	ON	M22-XD-S-GB6
	TEST	M22-XD-S-GB9
	FORWARD	M22-XD-S-GB15
	REVERSE	M22-XD-S-GB16
	RAISE	M22-XD-S-GB17
	LOWER	M22-XD-S-GB18
	⊙	M22-XD-S-X0
	⓪	M22-XD-S-X1
	Ⓛ	M22-XD-S-X2
	⊕	M22-XD-S-X4
⊖	M22-XD-S-X5	
Red	⓪	M22-XD-S-X7
	—	M22-XD-R ^③
	Custom	M22-XD-R-ETCH ^④
	STOP	M22-XD-R-GB0
	OFF	M22-XD-R-GB5
	⊙	M22-XD-R-X0
Green	—	M22-XD-G ^③
	Custom	M22-XD-G-ETCH ^④
	START	M22-XD-G-GB1
	ON	M22-XD-G-GB6
	⓪	M22-XD-G-X1
Blue	—	M22-XD-B ^③
	Custom	M22-XD-B-ETCH ^④
	RESET	M22-XD-B-GB14
White	⓪	M22-XD-B-X6
	—	M22-XD-W ^③
	Custom	M22-XD-W-ETCH ^④
Yellow	START	M22-XD-W-GB1
	⓪	M22-XD-W-X1
	—	M22-XD-Y ^③
Black, red, green	Custom	M22-XD-Y-ETCH ^④
Black, red, green	—	M22-XD-SRG
Black, white, red, green, yellow, blue	—	M22-XD-SWRGYB

Buttonless Operator



M22-K10



M22-FK01



Contact Blocks ^②

Terminal Type	Contact Configuration ^⑥	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
NC	M22-FK01 ^⑦	
NO	M22-FK10 ^⑦	

Notes

- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② For complete listing of available button plates and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ③ Minimum order quantity of (10).
- ④ When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-123 to V7-T1-130) into the Order Notes. For example, M22-XD-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ⑤ Includes contact block mounting adapter.
- ⑥ All NC contact blocks are positively driven contact. ⊖
- ⑦ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1 Non-Illuminated Pushbuttons, Extended, Momentary

M22-DH-R-K10



M22S-DH-R-K10



M22M-DH-R-K10



Complete Devices

Button Color	Contact Block Configuration ^①	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NO	M22-DH-R-K10	M22S-DH-R-K10	M22M-DH-R-K10
	NC	M22-DH-R-K01	M22S-DH-R-K01	M22M-DH-R-K01
	2NO	M22-DH-R-K20	M22S-DH-R-K20	M22M-DH-R-K20
	2NC	M22-DH-R-K02	M22S-DH-R-K02	M22M-DH-R-K02
	1NO-1NC	M22-DH-R-K11	M22S-DH-R-K11	M22M-DH-R-K11

M22-DGH-R-K10



Silver Guarded

Button Color	Contact Block Configuration ^①	Silver Bezel Catalog Number
Red	NO	M22-DGH-R-K10
	NC	M22-DGH-R-K01
	2NO	M22-DGH-R-K20
	2NC	M22-DGH-R-K02
	1NO-1NC	M22-DGH-R-K11

M22-DH-R



M22S-DH-R



M22M-DH-R



Operators Only ^②

Button Color	Inscription	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	—	M22-DH-S	M22S-DH-S	M22M-DH-S
Red	—	M22-DH-R	M22S-DH-R	M22M-DH-R
	STOP	M22-DH-R-GB0	M22S-DH-R-GB0	M22M-DH-R-GB0
	⊙	M22-DH-R-X0	M22S-DH-R-X0	M22M-DH-R-X0
Green	—	M22-DH-G	M22S-DH-G	M22M-DH-G
White	—	M22-DH-W	M22S-DH-W	M22M-DH-W
Blue	—	M22-DH-B	M22S-DH-B	M22M-DH-B
Yellow	—	M22-DH-Y	M22S-DH-Y	M22M-DH-Y
③	—	M22-DH-X-SRGR	M22S-DH-X-SRGR	M22M-DH-X-SRGR
④	—	M22-DH-X-SWRGRYB	M22S-DH-X-SWRGRYB	M22M-DH-X-SWRGRYB

M22-DGH-R-K10



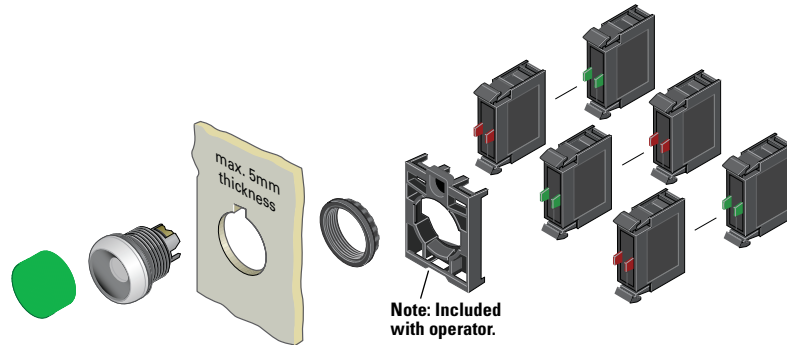
Silver Guarded

Button Color	Inscription	Silver Bezel Catalog Number
Black	—	M22-DGH-S
Red	—	M22-DGH-R
	STOP	M22-DGH-R-GB0
	⊙	M22-DGH-R-X0
Green	—	M22-DGH-G
White	—	M22-DGH-W
Blue	—	M22-DGH-B
Yellow	—	M22-DGH-Y

Notes

- ① All NC contact blocks are positively driven contact. ⊖
- ② Includes contact block mounting adapter.
- ③ Buttonless operator comes with three color buttons (black, red, green).
- ④ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).

Non-Illuminated Pushbuttons, Extended, Momentary



Components

M22-XDH-R



Button Plates ^①

Color	Inscription	Catalog Number
Black	—	M22-XDH-S ^②
	Custom	M22-XDH-S-ETCH ^③
	STOP	M22-XDH-S-GB0
	START	M22-XDH-S-GB1
	CLOSE	M22-XDH-S-GB2
	UP	M22-XDH-S-GB3
	DOWN	M22-XDH-S-GB4
	OFF	M22-XDH-S-GB5
	ON	M22-XDH-S-GB6
	TEST	M22-XDH-S-GB9
	FORWARD	M22-XDH-S-GB15
	REVERSE	M22-XDH-S-GB16
	RAISE	M22-XDH-S-GB17
	LOWER	M22-XDH-S-GB18
	⊙	M22-XDH-S-X0
	①	M22-XDH-S-X1
	②	M22-XDH-S-X2
	+	M22-XDH-S-X4
	−	M22-XDH-S-X5
①	M22-XDH-S-X7	
Red	—	M22-XDH-R ^②
	Custom	M22-XDH-R-ETCH ^③
	STOP	M22-XDH-R-GB0
	OFF	M22-XDH-R-GB5
Green	—	M22-XDH-G ^②
	Custom	M22-XDH-G-ETCH ^③
	START	M22-XDH-G-GB1
	ON	M22-XDH-G-GB6
Blue	—	M22-XDH-B ^②
	Custom	M22-XDH-B-ETCH ^③
	RESET	M22-XDH-B-GB14
	Ⓜ	M22-XDH-B-X6
White	—	M22-XDH-W ^②
	Custom	M22-XDH-W-ETCH ^③
	START	M22-XDH-W-GB1
Yellow	—	M22-XDH-Y ^②
	Custom	M22-XDH-Y-ETCH ^③
Black, red, green	—	M22-XDH-SRG
Black, white, red, green, yellow, blue	—	M22-XDH-SWRGYB

Buttonless Operator



Silver Bezel
Catalog
Number ^④

M22-D-X



Black Bezel
Catalog
Number ^④

M22S-D-X



Metal Bezel
Catalog
Number ^④

M22M-D-X

Silver Guarded



Silver Bezel
Catalog
Number ^④

M22-DG-X

M22-K10



M22-FK01



Contact Blocks ^①

Terminal Type	Contact Configuration ^⑤	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑥
	NO	M22-FK10 ^⑥

Notes

- ① For complete listing of available button plates and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ② Minimum order quantity of (10).
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-123 to V7-T1-130) into the Order Notes. For example, M22-XDH-S-ETCH; Order Notes: Mark with symbol X91, Line item # ...
- ④ Includes contact block mounting adapter.
- ⑤ All NC contact blocks are positively driven contact. ⊖
- ⑥ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1 Non-Illuminated Pushbuttons, Extended, Maintained ^①

M22-DRH-W



M22S-DRH-W



M22M-DRH-W

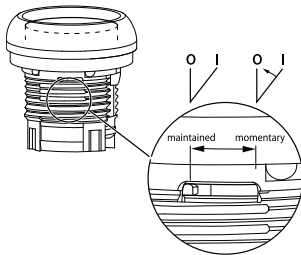


Operators Only ^②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	M22-DRH-S	M22S-DRH-S	M22M-DRH-S
Red	M22-DRH-R	M22S-DRH-R	M22M-DRH-R
Green	M22-DRH-G	M22S-DRH-G	M22M-DRH-G
White	M22-DRH-W	M22S-DRH-W	M22M-DRH-W
Blue	M22-DRH-B	M22S-DRH-B	M22M-DRH-B
Yellow	M22-DRH-Y	M22S-DRH-Y	M22M-DRH-Y
③	M22-DRH-X-SRG	M22S-DRH-X-SRG	M22M-DRH-X-SRG
④	M22-DRH-X-SWRGYB	M22S-DRH-X-SWRGYB	M22M-DRH-X-SWRGYB

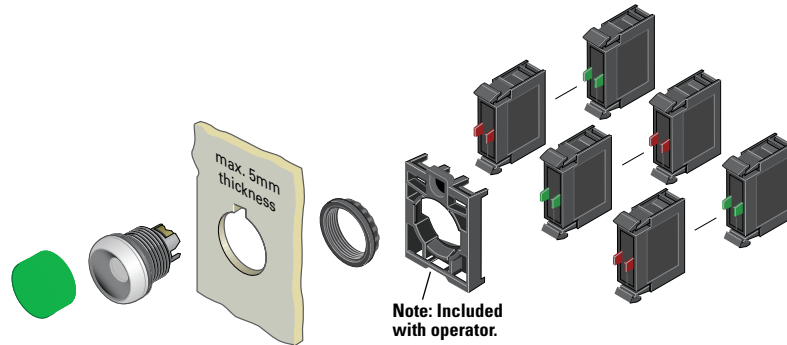
Notes

- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② Includes contact block mounting adapter.
- ③ Buttonless operator comes with three color buttons (black, red, green).
- ④ Buttonless operator comes with all six color buttons (black, white, red, green, yellow, blue).



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

Non-Illuminated Pushbuttons, Extended, Maintained ^①



Components

M22-XDH-W



Button Plates ^②

Color	Inscription	Catalog Number
Black	—	M22-XDH-S ^③
	Custom	M22-XDH-S-ETCH ^④
	STOP	M22-XDH-S-GB0
	START	M22-XDH-S-GB1
	CLOSE	M22-XDH-S-GB2
	UP	M22-XDH-S-GB3
	DOWN	M22-XDH-S-GB4
	OFF	M22-XDH-S-GB5
	ON	M22-XDH-S-GB6
	TEST	M22-XDH-S-GB9
	FORWARD	M22-XDH-S-GB15
	REVERSE	M22-XDH-S-GB16
	RAISE	M22-XDH-S-GB17
	LOWER	M22-XDH-S-GB18
	⊙	M22-XDH-S-X0
	⓪	M22-XDH-S-X1
	Ⓛ	M22-XDH-S-X2
	+	M22-XDH-S-X4
−	M22-XDH-S-X5	
Ⓛ	M22-XDH-S-X7	
Red	—	M22-XDH-R ^③
	Custom	M22-XDH-R-ETCH ^④
	STOP	M22-XDH-R-GB0
	OFF	M22-XDH-R-GB5
	⊙	M22-XDH-R-X0
	⓪	M22-XDH-R-X1
Green	—	M22-XDH-G ^③
	Custom	M22-XDH-G-ETCH ^④
	START	M22-XDH-G-GB1
	ON	M22-XDH-G-GB6
	⓪	M22-XDH-G-X1
Blue	—	M22-XDH-B ^③
	Custom	M22-XDH-B-ETCH ^④
	RESET	M22-XDH-B-GB14
White	Ⓡ	M22-XDH-B-X6
	—	M22-XDH-W ^③
	Custom	M22-XDH-W-ETCH ^④
Yellow	START	M22-XDH-W-GB1
	⓪	M22-XDH-W-X1
	—	M22-XDH-Y ^③
Black, red, green	Custom	M22-XDH-Y-ETCH ^④
	—	M22-XDH-SRG
Black, white, red, green, yellow, blue	—	M22-XDH-SWRGYB

Buttonless Operator



M22-K10



M22-FK01



Contact Blocks ^②

Terminal Type	Contact Configuration ^⑥	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑦
	NO	M22-FK10 ^⑦

Notes

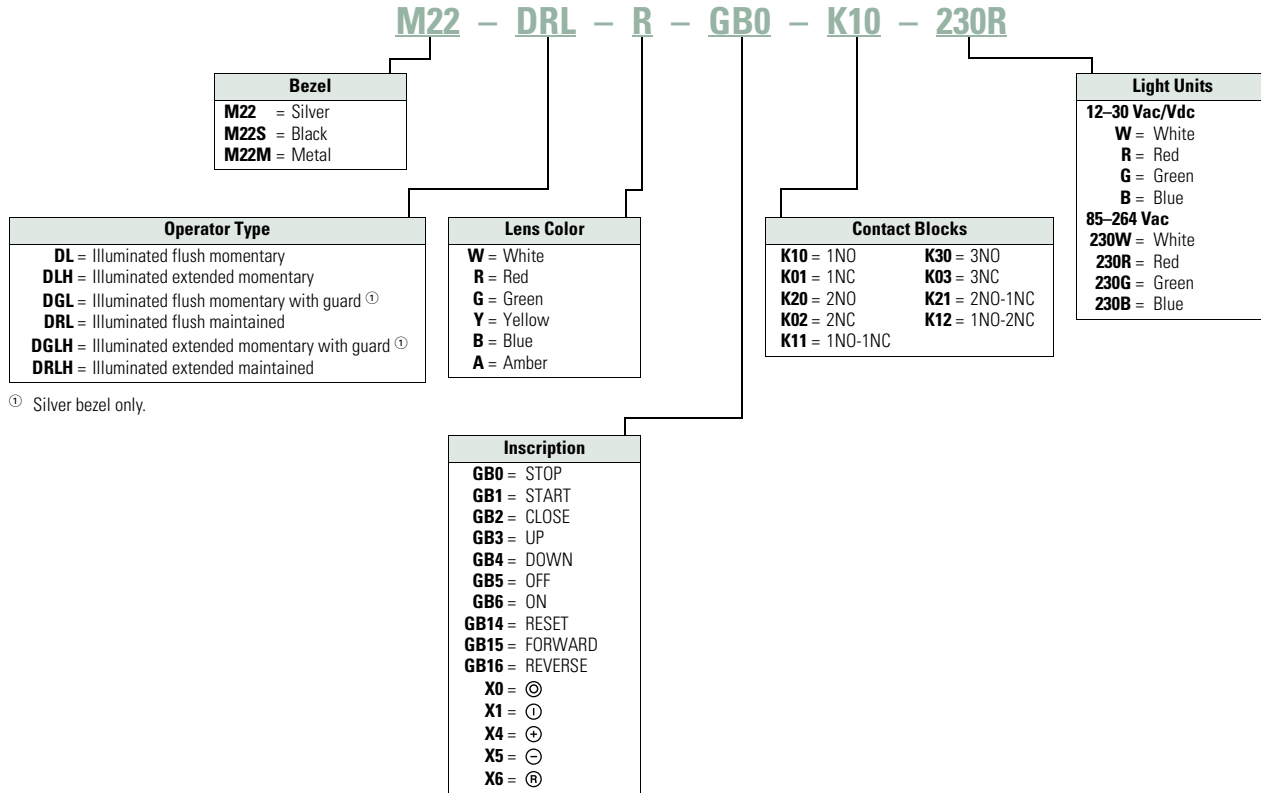
- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② For complete listing of available button plates and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ③ Minimum order quantity of (10).
- ④ When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-123 to V7-T1-130) into the Order Notes. For example, M22-XDH-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ⑤ Includes contact block mounting adapter.
- ⑥ All NC contact blocks are positively driven contact. ⊖
- ⑦ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Illuminated Pushbuttons



Product Selection

Illuminated Pushbuttons, Flush, Momentary

M22-DL-G-K01-G



M22S-DL-G-K01-G



M22M-DL-G-K01-G



Complete Devices

Button Color	Contact Block Configuration ^①	Light Unit Voltage	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NC	12–30 Vac/Vdc	M22-DL-R-K01-R	M22S-DL-R-K01-R	M22M-DL-R-K01-R
	NC	85–264 Vac	M22-DL-R-K01-230R	M22S-DL-R-K01-230R	M22M-DL-R-K01-230R
	2NC	12–30 Vac/Vdc	M22-DL-R-K02-R	M22S-DL-R-K02-R	M22M-DL-R-K02-R
	2NC	85–264 Vac	M22-DL-R-K02-230R	M22S-DL-R-K02-230R	M22M-DL-R-K02-230R
Green	1NO/1NC	12–30 Vac/Vdc	M22-DL-R-K11-R	M22S-DL-R-K11-R	M22M-DL-R-K11-R
	1NO/1NC	85–264 Vac	M22-DL-R-K11-230R	M22S-DL-R-K11-230R	M22M-DL-R-K11-230R
	NO	12–30 Vac/Vdc	M22-DL-G-K10-G	M22S-DL-G-K10-G	M22M-DL-G-K10-G
	NO	85–264 Vac	M22-DL-G-K10-230G	M22S-DL-G-K10-230G	M22M-DL-G-K10-230G
White	2NO	12–30 Vac/Vdc	M22-DL-G-K20-G	M22S-DL-G-K20-G	M22M-DL-G-K20-G
	2NO	85–264 Vac	M22-DL-G-K20-230G	M22S-DL-G-K20-230G	M22M-DL-G-K20-230G
	1NO/1NC	12–30 Vac/Vdc	M22-DL-G-K11-G	M22S-DL-G-K11-G	M22M-DL-G-K11-G
	1NO/1NC	85–264 Vac	M22-DL-G-K11-230G	M22S-DL-G-K11-230G	M22M-DL-G-K11-230G
White	NO	12–30 Vac/Vdc	M22-DL-W-K10-W	M22S-DL-W-K10-W	—
	NO	85–264 Vac	M22-DL-W-K10-230W	M22S-DL-W-K10-230W	M22M-DL-W-K10-230W
	2NO	12–30 Vac/Vdc	M22-DL-W-K20-W	M22S-DL-W-K20-W	—
	2NO	85–264 Vac	M22-DL-W-K20-230W	M22S-DL-W-K20-230W	M22M-DL-W-K20-230W
	1NO/1NC	12–30 Vac/Vdc	M22-DL-W-K11-W	M22S-DL-W-K11-W	—
	1NO/1NC	85–264 Vac	M22-DL-W-K11-230W	M22S-DL-W-K11-230W	M22M-DL-W-K11-230W

Note

① All NC contact blocks are positively driven contact. ⊖

1

Illuminated Pushbuttons, Flush, Momentary

M22-DL-G



M22S-DL-G



M22M-DL-G



Operators Only [Ⓢ]

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	M22-DL-R	M22S-DL-R	M22M-DL-R
Green	M22-DL-G	M22S-DL-G	M22M-DL-G
White	M22-DL-W	M22S-DL-W	M22M-DL-W
Blue	M22-DL-B	M22S-DL-B	M22M-DL-B
Yellow	M22-DL-Y	M22S-DL-Y	M22M-DL-Y
Amber	M22-DL-A	M22S-DL-A	M22M-DL-A

M22-DGL-G



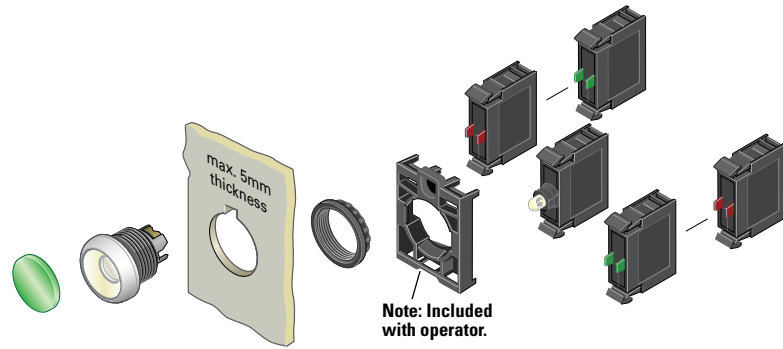
Silver Guarded

Button Color	Silver Bezel Catalog Number
Red	M22-DGL-R
Green	M22-DGL-G
White	M22-DGL-W
Blue	M22-DGL-B
Yellow	M22-DGL-Y

Note

[Ⓢ] Includes contact block mounting adapter.

Illuminated Pushbuttons, Flush, Momentary



Note: Included with operator.

Components

M22-XDL-G



Button Lenses ^①

Color	Inscription	Catalog Number
Red	—	M22-XDL-R ^②
	Custom	M22-XDL-R-ETCH ^③
	STOP	M22-XDL-R-GB0
	OFF	M22-XDL-R-GB5
	Ⓞ	M22-XDL-R-X0
Green	—	M22-XDL-G ^②
	Custom	M22-XDL-G-ETCH ^③
	START	M22-XDL-G-GB1
	ON	M22-XDL-G-GB6
	Ⓢ	M22-XDL-G-X1
Blue	—	M22-XDL-B ^②
	Custom	M22-XDL-B-ETCH ^③
	RESET	M22-XDL-B-GB14
	Ⓡ	M22-XDL-B-X6
White	—	M22-XDL-W ^②
	Custom	M22-XDL-W-ETCH ^③
Yellow	—	M22-XDL-Y ^②
	Custom	M22-XDL-Y-ETCH ^③
Amber	—	M22-XDL-A
	Custom	M22-XDL-A-ETCH

M22-DL-X



Buttonless Operator

Silver Bezel Catalog Number ^④	Black Bezel Catalog Number ^④	Metal Bezel Catalog Number ^④
M22-DL-X	M22S-DL-X	M22M-DL-X

M22S-DL-X



M22M-DL-X



M22-DGL-X



Silver Guarded

Silver Bezel Catalog Number ^④
M22-DGL-X

M22-LED-W



Light Units ^①

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30	M22-LED-W
	Red	Vac/Vdc	M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264 Vac	M22-LED230-W
	Red		M22-LED230-R
	Green		M22-LED230-G
Spring-cage	Blue		M22-LED230-B
	White	12–30	M22-FLED-W
	Red	Vac/Vdc	M22-FLED-R
	Green		M22-FLED-G
	Blue		M22-FLED-B
	Red/Green/Yellow	24 Vdc	M22-FLED-RG ^⑤
	Red, Green, Blue, Yellow, White, Violet, Turquoise		M22-FLED-RGB ^⑤

M22-FLED-



M22-K10



Contact Blocks ^①

Terminal Type	Contact Configuration ^⑥	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑦
	NO	M22-FK10 ^⑦

M22-FK01



Notes

- For complete listing of available button lenses, light units and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- Minimum order quantity of (10).
- When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-123 to V7-T1-130) into the Order Notes. For example, M22-XDL-R-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- Includes contact block mounting adapter.
- Please see color input key on Page V7-T1-108.
- All NC contact blocks are positively driven contact. ⊖
- Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

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Illuminated Pushbuttons, Flush, Maintained ^①

M22-DRL-W-K10-W



M22S-DRL-W-K10-W



M22M-DRL-W-K10-W



Complete Devices

Button Color	Contact Block Configuration ^②	Light Unit Voltage	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
White	NO	12–30 Vac/Vdc	M22-DRL-W-K10-W	M22S-DRL-W-K10-W	M22M-DRL-W-K10-W
	NO	85–264 Vac	M22-DRL-W-K10-230W	M22S-DRL-W-K10-230W	M22M-DRL-W-K10-230W
	NC	12–30 Vac/Vdc	M22-DRL-W-K01-W	M22S-DRL-W-K01-W	M22M-DRL-W-K01-W
	NC	85–264 Vac	M22-DRL-W-K01-230W	M22S-DRL-W-K01-230W	M22M-DRL-W-K01-230W
	2NO	12–30 Vac/Vdc	M22-DRL-W-K20-W	M22S-DRL-W-K20-W	M22M-DRL-W-K20-W
	2NO	85–264 Vac	M22-DRL-W-K20-230W	M22S-DRL-W-K20-230W	M22M-DRL-W-K20-230W
	2NC	12–30 Vac/Vdc	M22-DRL-W-K02-W	M22S-DRL-W-K02-W	M22M-DRL-W-K02-W
	2NC	85–264 Vac	M22-DRL-W-K02-230W	M22S-DRL-W-K02-230W	M22M-DRL-W-K02-230W
	1NO/1NC	12–30 Vac/Vdc	M22-DRL-W-K11-W	M22S-DRL-W-K11-W	M22M-DRL-W-K11-W
	1NO/1NC	85–264 Vac	M22-DRL-W-K11-230W	M22S-DRL-W-K11-230W	M22M-DRL-W-K11-230W

M22-DRL-W



M22S-DRL-W



M22M-DRL-W

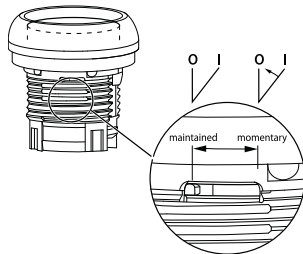


Operators Only ^③

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	M22-DRL-R	M22S-DRL-R	M22M-DRL-R
Green	M22-DRL-G	M22S-DRL-G	M22M-DRL-G
White	M22-DRL-W	M22S-DRL-W	M22M-DRL-W
Blue	M22-DRL-B	M22S-DRL-B	M22M-DRL-B
Yellow	M22-DRL-Y	M22S-DRL-Y	M22M-DRL-Y
Amber	M22-DRL-A	M22S-DRL-A	M22M-DRL-A

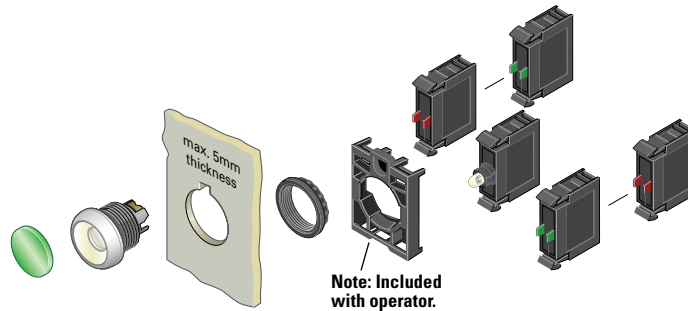
Notes

- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② All NC contact blocks are positively driven contact.
- ③ Includes contact block mounting adapter.



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

Illuminated Pushbuttons, Flush, Maintained ^①



Components

M22-XDL-W



Button Lenses ^②

Color	Inscription	Catalog Number
Red	—	M22-XDL-R ^③
	Custom	M22-XDL-R-ETCH ^④
	STOP	M22-XDL-R-GB0
	OFF	M22-XDL-R-GB5
	⊙	M22-XDL-R-X0
Green	—	M22-XDL-G ^③
	Custom	M22-XDL-G-ETCH ^④
	START	M22-XDL-G-GB1
	ON	M22-XDL-G-GB6
	⓪	M22-XDL-G-X1
Blue	—	M22-XDL-B ^③
	Custom	M22-XDL-B-ETCH ^④
	RESET	M22-XDL-B-GB14
	Ⓜ	M22-XDL-B-X6
White	—	M22-XDL-W ^③
	Custom	M22-XDL-W-ETCH ^④
Yellow	—	M22-XDL-Y ^③
	Custom	M22-XDL-Y-ETCH ^④
Amber	—	M22-XDL-A
	Custom	M22-XDL-A-ETCH

Buttonless Operator

Silver Bezel Catalog Number ^⑤	Black Bezel Catalog Number ^⑤	Metal Bezel Catalog Number ^⑤
M22-DRL-X	M22S-DRL-X	M22M-DRL-X

M22-DRL-X



M22S-DRL-X



M22M-DRL-X



M22-LED-W



Light Units ^②

Terminal Type	LED Color	Light Unit Voltage	Catalog Number	
Screw	White	12–30 Vac/Vdc	M22-LED-W	
	Red		M22-LED-R	
	Green		M22-LED-G	
	Blue		M22-LED-B	
Screw	White	85–264 Vac	M22-LED230-W	
	Red		M22-LED230-R	
	Green		M22-LED230-G	
	Blue		M22-LED230-B	
Spring-cage	White	12–30 Vac/Vdc	M22-FLED-W	
	Red		M22-FLED-R	
	Green		M22-FLED-G	
	Blue		M22-FLED-B	
	Red/Green/Yellow		24 Vdc	M22-FLED-RG ^⑥
	Red, Green, Blue, Yellow, White, Violet, Turquoise			M22-FLED-RGB ^⑥

M22-FLED-



M22-K10



Contact Blocks ^②

Terminal Type	Contact Configuration ^⑦	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑧
	NO	M22-FK10 ^⑧

Notes

- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② For complete listing of available button lenses, light units and contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110**.
- ③ Minimum order quantity of (10).
- ④ When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XDL-R-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ⑤ Includes contact block mounting adapter.
- ⑥ Please see color input key on **Page V7-T1-108**.
- ⑦ All NC contact blocks are positively driven contact. ⊖
- ⑧ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

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Illuminated Pushbuttons, Extended, Momentary

M22-DLH-R-K11-R



M22S-DLH-R-K11-R



Complete Devices

Button Color	Contact Block Configuration ^①	Light Unit Voltage	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	1NO/1NC	12–30 Vac/Vdc	M22-DLH-R-K11-R	M22S-DLH-R-K11-R	M22M-DLH-R-K11-R
	1NO/1NC	85–264 Vac	M22-DLH-R-K11-230R	M22S-DLH-R-K11-230R	M22M-DLH-R-K11-230R
Green	2NO	12–30 Vac/Vdc	M22-DLH-G-K20-G	M22S-DLH-G-K20-G	M22M-DLH-G-K20-G
	2NO	85–264 Vac	M22-DLH-G-K20-230G	M22S-DLH-G-K20-230G	M22M-DLH-G-K20-230G
White	2NO	12–30 Vac/Vdc	M22-DLH-W-K20-W	M22S-DLH-W-K20-W	M22M-DLH-W-K20-W
	2NO	85–264 Vac	M22-DLH-W-K20-230W	M22S-DLH-W-K20-230W	M22M-DLH-W-K20-230W

Complete Press-to-Test Units

Button Color	Light Unit Voltage	Silver Bezel Catalog Number	Black Bezel Catalog Number
Red	12–30 Vac/Vdc	M22-T-R-R	M22S-T-R-R
Blue		M22-T-B-B	M22S-T-B-B
Yellow		M22-T-Y-W	M22S-T-Y-W
Green		M22-T-G-G	M22S-T-G-G
White		M22-T-W-W	M22S-T-W-W
Red	85–264 Vac	M22-T-R-230R	M22S-T-R-230R
Blue		M22-T-R-230B	M22S-T-B-230B
Yellow		M22-T-Y-230W	M22S-T-Y-230W
Green		M22-T-G-230G	M22S-T-G-230G
White		M22-T-W-230W	M22S-T-W-230W

Operators Only ^②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	M22-DLH-R	M22S-DLH-R	M22M-DLH-R
Green	M22-DLH-G	M22S-DLH-G	M22M-DLH-G
White	M22-DLH-W	M22S-DLH-W	M22M-DLH-W
Blue	M22-DLH-B	M22S-DLH-B	M22M-DLH-B
Yellow	M22-DLH-Y	M22S-DLH-Y	M22M-DLH-Y
Amber	M22-DLH-A	M22S-DLH-A	M22M-DLH-A

M22-DLH-R



M22S-DLH-R



M22M-DLH-R



M22-DGLH-R



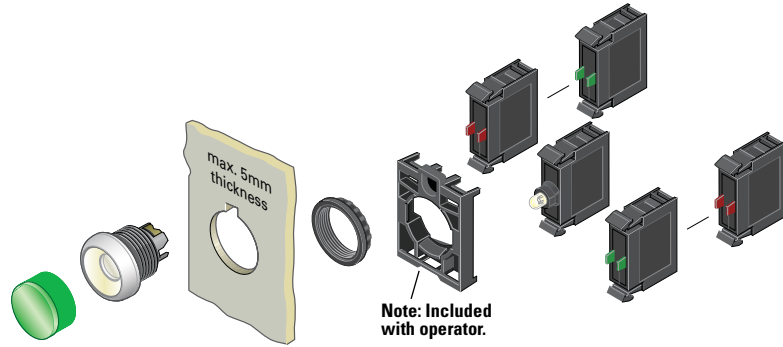
Silver Guarded

Button Color	Silver Bezel Catalog Number
Red	M22-DGLH-R
Green	M22-DGLH-G
White	M22-DGLH-W
Blue	M22-DGLH-B
Yellow	M22-DGLH-Y

Notes

- ^① All NC contact blocks are positively driven contact.
- ^② Includes contact block mounting adapter.

Illuminated Pushbuttons, Extended, Momentary



Components

M22-XDH-R



Button Lenses ^①

Color	Inscription	Catalog Number
Red	—	M22-XDLH-R ^②
	Custom	M22-XDLH-R-ETCH ^③
	STOP	M22-XDLH-R-GB0
	OFF	M22-XDLH-R-GB5
	⊙	M22-XDLH-R-X0
Green	—	M22-XDLH-G ^②
	Custom	M22-XDLH-G-ETCH ^③
	START	M22-XDLH-G-GB1
	ON	M22-XDLH-G-GB6
	⓪	M22-XDLH-G-X1
Blue	—	M22-XDLH-B ^②
	Custom	M22-XDLH-B-ETCH ^③
	RESET	M22-XDLH-B-GB14
	Ⓜ	M22-XDLH-B-X6
White	—	M22-XDLH-W ^②
Yellow	Custom	M22-XDLH-W-ETCH ^③
	—	M22-XDLH-Y ^②
Amber	Custom	M22-XDLH-Y-ETCH ^③
	—	M22-XDLH-A
	Custom	M22-XDLH-A-ETCH

M22-DL-X



Buttonless Operator

Silver Bezel Catalog Number ^④	Black Bezel Catalog Number ^④	Metal Bezel Catalog Number ^④
M22-DL-X	M22S-DL-X	M22M-DL-X

M22S-DL-X



M22M-DL-X



M22-DGL-X



Silver Guarded

Silver Bezel Catalog Number ^④
M22-DGL-X

M22-LED-W



M22-FLED-__



Light Units ^①

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30 Vac/Vdc	M22-LED-W
	Red		M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264 Vac	M22-LED230-W
	Red		M22-LED230-R
	Green		M22-LED230-G
Spring-cage	White	12–30 Vac/Vdc	M22-FLED-W
	Red		M22-FLED-R
	Green	M22-FLED-G	
	Blue	M22-FLED-B	
	Red/Green/Yellow	24 Vdc	M22-FLED-RG ^⑤
	Red, Green, Blue, Yellow, White, Violet, Turquoise		M22-FLED-RGB ^⑤

M22-K10



M22-FK01



Contact Blocks ^①

Terminal Type	Contact Configuration ^⑥	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑦
	NO	M22-FK10 ^⑦

Notes

- ① For complete listing of available button lenses, light units and contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110**.
- ② Minimum order quantity of (10).
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XDH-S-ETCH; Order Notes: Mark with symbol X91, Line item # __.
- ④ Includes contact block mounting adapter.
- ⑤ Please see color input key on **Page V7-T1-108**.
- ⑥ All NC contact blocks are positively driven contact. ⊖
- ⑦ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

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Illuminated Pushbuttons, Extended, Maintained ^①

M22-DRLH-W



M22S-DRLH-W



M22M-DRLH-W

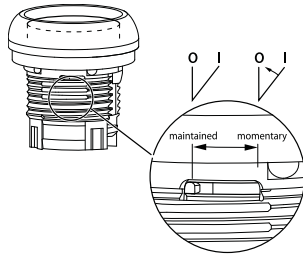


Operators Only ^②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	M22-DRLH-R	M22S-DRLH-R	M22M-DRLH-R
Green	M22-DRLH-G	M22S-DRLH-G	M22M-DRLH-G
White	M22-DRLH-W	M22S-DRLH-W	M22M-DRLH-W
Blue	M22-DRLH-B	M22S-DRLH-B	M22M-DRLH-B
Yellow	M22-DRLH-Y	M22S-DRLH-Y	M22M-DRLH-Y
Amber	M22-DRLH-A	M22S-DRLH-A	M22M-DRLH-A

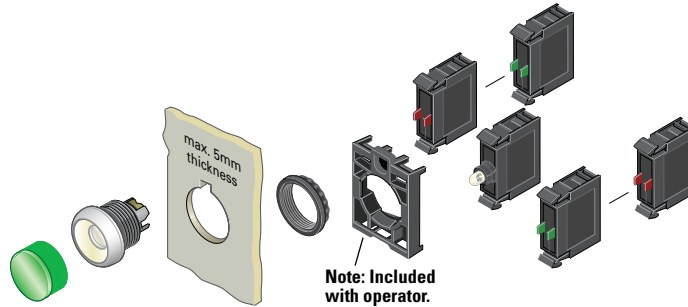
Notes

- ① Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ② Includes contact block mounting adapter.



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

Illuminated Pushbuttons, Extended, Maintained ^①



Components

M22-XDLH-W



Button Lenses ^②

Color	Inscription	Catalog Number
Red	—	M22-XDLH-R ^③
	Custom	M22-XDLH-R-ETCH ^④
	STOP	M22-XDLH-R-GB0
	OFF	M22-XDLH-R-GB5
	⊙	M22-XDLH-R-X0
Green	—	M22-XDLH-G ^③
	Custom	M22-XDLH-G-ETCH ^④
	START	M22-XDLH-G-GB1
	ON	M22-XDLH-G-GB6
	⓪	M22-XDLH-G-X1
Blue	—	M22-XDLH-B ^③
	Custom	M22-XDLH-B-ETCH ^④
	RESET	M22-XDLH-B-GB14
	Ⓜ	M22-XDLH-B-X6
White	—	M22-XDLH-W ^③
Yellow	Custom	M22-XDLH-W-ETCH ^④
	—	M22-XDLH-Y ^③
Amber	—	M22-XDLH-A
	Custom	M22-XDLH-A-ETCH

Buttonless Operator

Silver Bezel Catalog Number ^⑤	Black Bezel Catalog Number ^⑤	Metal Bezel Catalog Number ^⑤
M22-DRL-X	M22S-DRL-X	M22M-DRL-X

M22-DRL-X



M22S-DRL-X



M22M-DRL-X



M22-LED-W



Light Units ^②

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30 Vac/Vdc	M22-LED-W
	Red		M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264 Vac	M22-LED230-W
	Red		M22-LED230-R
	Green		M22-LED230-G
Spring-cage	White	12–30 Vac/Vdc	M22-FLED-W
	Red		M22-FLED-R
	Green	M22-FLED-G	
	Blue	M22-FLED-B	
	Red/Green/ Yellow	24 Vdc	M22-FLED-RG ^⑥
	Red, Green, Blue, Yellow, White, Violet, Turquoise		M22-FLED-RGB ^⑥

M22-FLED-__



M22-K10



Contact Blocks ^②

Terminal Type	Contact Configuration ^⑦	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑧
	NO	M22-FK10 ^⑧

Notes

- Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- For complete listing of available button lenses, light units and contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110**.
- Minimum order quantity of (10).
- When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XDLH-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- Includes contact block mounting adapter.
- Please see color input key on **Page V7-T1-108**.
- All NC contact blocks are positively driven contact. ⊖
- Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Indicating Lights

Product Description

Eaton's M22 indicating lights use the combination of a durable, bright LED unit and modern lenses designed specifically for this type of LED to create a bright and visible indicating light.

As with the pushbuttons, the indicating light lenses can be laser engraved. Indicating lights can be ordered as complete devices, including lens and LED unit, or as modular components.

Features

- Customizable laser engraving on all lenses
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Lenses designed specifically for LED illumination
- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Capable of communicating via ASi protocol with ASi adapter modules

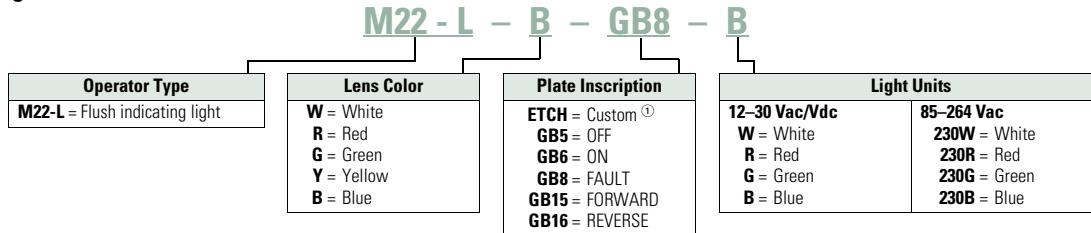
Protection Type

- IP67, IP69K
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Indicating Lights



Note: Light unit should match color of lens. Use white light unit with yellow lens.

^① When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-L-B-ETCH; Order Notes: Mark with symbol X91, Line item #_.

Product Selection

Indicating Lights, Flush

M22-L-R-R



Complete Devices

Lens Color	Light Color	Light Unit Voltage	Catalog Number
White	White	12–30 Vac/Vdc	M22-L-W-W
Red	Red		M22-L-R-R
Green	Green		M22-L-G-G
Yellow	White		M22-L-Y-W
Blue	Blue		M22-L-B-B
Amber	White		M22-L-A-W
White	White	85–264 Vac	M22-L-W-230W
Red	Red		M22-L-R-230R
Green	Green		M22-L-G-230G
Yellow	White		M22-L-Y-230W
Blue	Blue		M22-L-B-230B
Amber	White		M22-L-A-230W

Operators Only ^①

M22-L-R



Lens Color	Catalog Number
Flat	
White	M22-L-W
Red	M22-L-R
Green	M22-L-G
Yellow	M22-L-Y
Blue	M22-L-B
Amber	M22-L-A

M22-LH-R

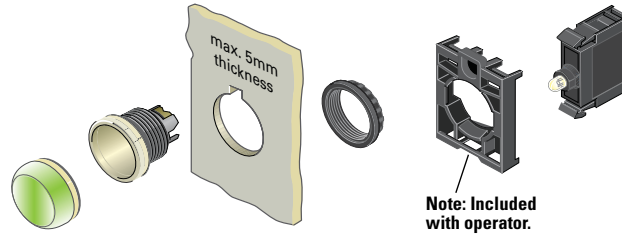


Lens Color	Catalog Number
Conical	
White	M22-LH-W
Red	M22-LH-R
Green	M22-LH-G
Yellow	M22-LH-Y
Blue	M22-LH-B
Amber	M22-LH-A

Note

^① Includes contact block mounting adapter.

Indicating Lights, Flush



Components

M22-XL-R



Lenses ①

Color	Inscription	Catalog Number
Flat		
Red	—	M22-XL-R ②
	Custom	M22-XL-R-ETCH ③
	OFF	M22-XL-R-GB5
Green	—	M22-XL-G ②
	Custom	M22-XL-G-ETCH ③
	ON	M22-XL-G-GB6
	REVERSE	M22-XL-G-GB16
Blue	—	M22-XL-B ②
	Custom	M22-XL-B-ETCH ③
	FAULT	M22-XL-B-GB8
White	—	M22-XL-W ②
	Custom	M22-XL-W-ETCH ③
	OFF	M22-XL-W-GB5
	ON	M22-XL-W-GB6
	FAULT	M22-XL-W-GB8
Yellow	—	M22-XL-Y ②
	Custom	M22-XL-Y-ETCH ③
	FORWARD	M22-XL-W-GB15
Amber	—	M22-XL-A ②
	Custom	M22-XL-A-ETCH ③
Conical		
Red	—	M22-XLH-R
Green	—	M22-XLH-G
Blue	—	M22-XLH-B
White	—	M22-XLH-W
Yellow	—	M22-XLH-Y
Amber	—	M22-XLH-A

M22-LED-W



M22-FLED-__



Light Units ①④

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30	M22-LED-W
	Red	Vac/Vdc	M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264	M22-LED230-W
	Red	Vac	M22-LED230-R
	Green		M22-LED230-G
	Blue		M22-LED230-B
Spring-cage	White	12–30	M22-FLED-W
	Red	Vac/Vdc	M22-FLED-R
	Green		M22-FLED-G
	Blue		M22-FLED-B
	Red/Green/Yellow	24 Vdc	M22-FLED-RG ⑤
	Red, Green, Blue, Yellow, White, Violet, Turquoise		M22-FLED-RGB ⑤

Notes

- ① For complete listing of available lenses and light units, see Accessories, **Pages V7-T1-105 to V7-T1-110**.
- ② Minimum order quantity of (10).
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XL-R-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ④ Select the same color LED element as lens color; for yellow and amber lenses, choose a white LED.
- ⑤ Please see color input key on **Page V7-T1-108**.

M22-L-X



Lensless Indicating Light

Catalog Number

M22-L-X

1

Emergency Stops

Product Description

Eaton's M22 emergency stops are a durable and reliable solution to a variety of e-stop applications. With standard push-pull, as well as twist-to-release and key-release, illuminated options and red or black operators, the M22 e-stop is a robust solution. As with all operators, they can be ordered as a ready to install complete device or as modular components for the perfect fit.

Features

- Push-pull and twist to release options available as well as illuminated and keyed release
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than 100,000 mechanical operations
- Capable of communicating via ASi protocol with ASi adapter modules
- Suitable for use in safety applications up to Category-4 or Sil-3

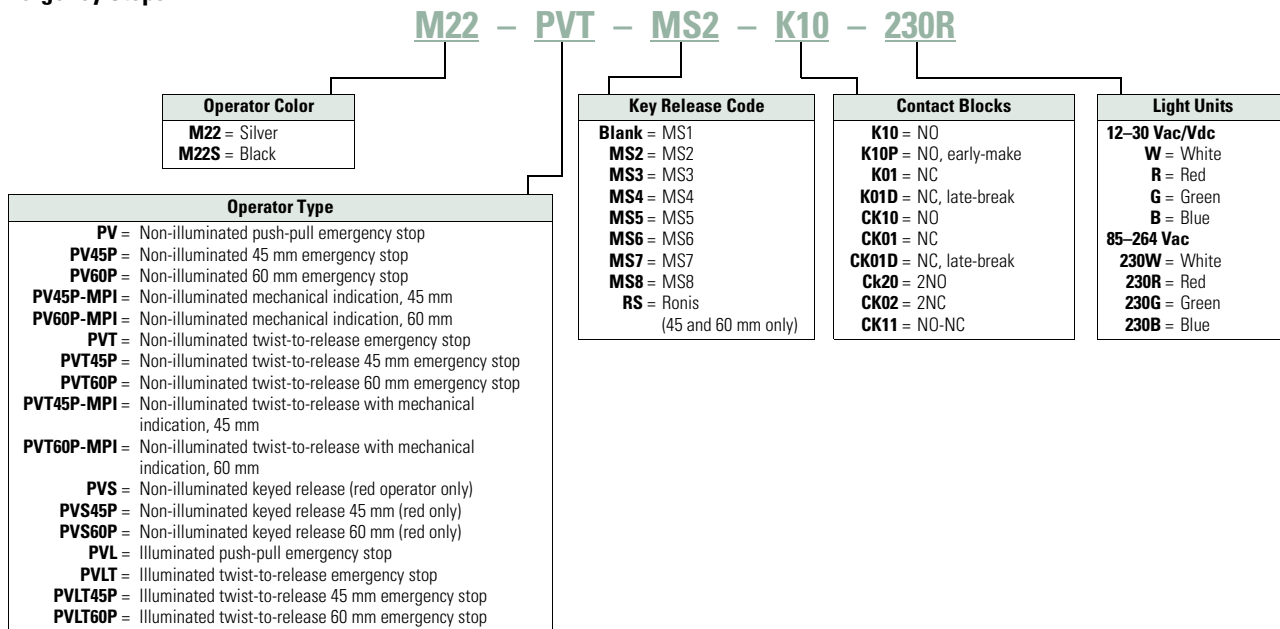
Protection Type

- Up to IP69K for increased protection. Check ecat.eaton.com for specifics
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Emergency Stops



Product Selection

Non-Illuminated and Illuminated Emergency Stops

Complete Devices

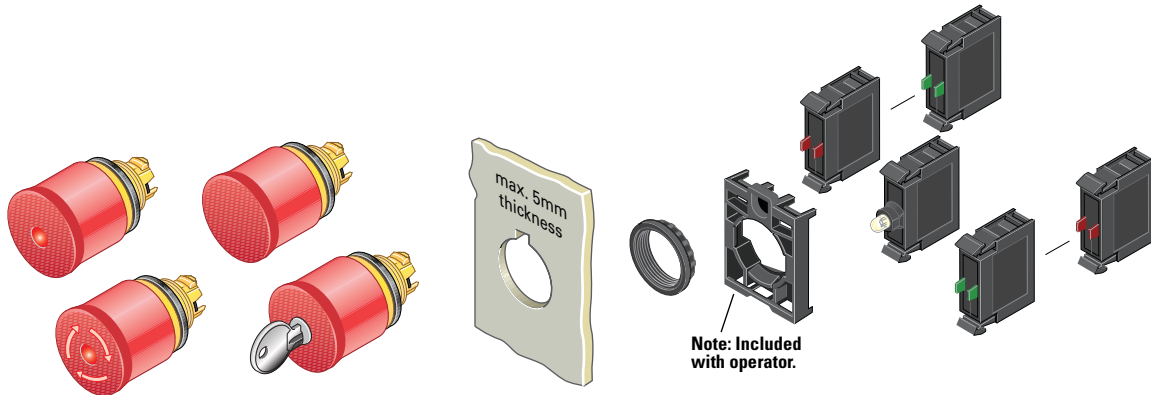
Type	Button Color	LED Color	Contact Block Configuration ^①	Light Unit Voltage	Catalog Number			
M22-PV-K01								
Non-Illuminated								
Push-pull	Red	—	NC	—	M22-PV-K01			
			2NC		M22-PV-K02			
			1NO-2NC		M22-PV-K12			
Twist-to-release	Red	—	NC	—	M22-PVT-K01			
			2NC		M22-PVT-K02			
			1NO-2NC		M22-PVT-K12			
Key release	Red	—	NC	—	M22-PVS-K01			
			2NC		M22-PVS-K02			
			1NO-2NC		M22-PVS-K12			
M22-PVL-K01-R								
Illuminated								
Push-pull	Red	Red	NC	12–30 Vac/Vdc	M22-PVL-K01-R			
			2NC		M22-PVL-K02-R			
			1NO-2NC		M22-PVL-K12-R			
			NC	85–264 Vac	M22-PVL-K01-230R			
			2NC		M22-PVL-K02-230R			
			1NO-2NC		M22-PVL-K12-230R			
			Twist-to-release	Red	Red	NC	12–30 Vac/Vdc	M22-PVLT-K01-R
						2NC		M22-PVLT-K02-R
						1NO-2NC		M22-PVLT-K12-R
NC	85–264 Vac	M22-PVLT-K01-230R						
2NC		M22-PVLT-K02-230R						
1NO-2NC		M22-PVLT-K12-230R						

Note

① All NC contact blocks are positively driven contact. ⊖



Non-Illuminated and Illuminated Emergency Stops



Components

M22-PVL



Push-Pull Emergency Stops

Illumination/Indication	Actuator Size	Catalog Number
None	35 mm	M22-PV
	45 mm	M22-PV45P
	60 mm	M22-PV60P
LED illumination	35 mm	M22-PVL
	45 mm	M22-PVL45P
	60 mm	M22-PVL60P
Mechanical indication	45 mm	M22-PV45P-MPI
	60 mm	M22-PV60P-MPI

M22-PVS60P-MS1



Key Release Emergency Stops ③

Actuator Size	Key Code	Catalog Number	
35 mm	MS1	M22-PVS ③	
	MS2	M22-PVS-MS2	
	MS3	M22-PVS-MS3	
	MS4	M22-PVS-MS4	
	MS5	M22-PVS-MS5	
	MS6	M22-PVS-MS6	
	MS7	M22-PVS-MS7	
	MS8	M22-PVS-MS8	
45 mm	MS1	M22-PVS45P	
	MS2	M22-PVS45P-MS2	
	MS3	M22-PVS45P-MS3	
	MS4	M22-PVS45P-MS4	
	MS5	M22-PVS45P-MS5	
	MS6	M22-PVS45P-MS6	
	MS7	M22-PVS45P-MS7	
	MS8	M22-PVS45P-MS8	
	Ronis	M22-PVS45P-RS	
	60 mm	MS1	M22-PVS60P
		MS2	M22-PVS60P-MS2
		MS3	M22-PVS60P-MS3
		MS4	M22-PVS60P-MS4
		MS5	M22-PVS60P-MS5
		MS6	M22-PVS60P-MS6
		MS7	M22-PVS60P-MS7
MS8		M22-PVS60P-MS8	
Ronis	M22-PVS60P-RS		

M22-PVT45P-MPI



Twist-to-Release Emergency Stops

Illumination/Indication	Actuator Size	Catalog Number
None	35 mm	M22-PVT
	45 mm	M22-PVT45P
	60 mm	M22-PVT60P
LED illumination	35 mm	M22-PVLT
	45 mm	M22-PVLT45P
	60 mm	M22-PVLT60P
Mechanical indication	45 mm	M22-PVT45P-MPI
	60 mm	M22-PVT60P-MPI

M22S-PVLT



Machine Stop Operators (Black) ①





Illumination	Type	Actuator Size	Catalog Number
Non-illuminated	Push-pull	35 mm	M22S-PV
	Twist-to-release	35 mm	M22S-PVT
LED illumination	Push-pull	35 mm	M22S-PVL
	Twist-to-release	35 mm	M22S-PVLT

Notes


- ① Includes contact block mounting adapter.
- ② Key included. For identical locks and keys, use the same key code. One key is included with actuator; additional keys are available as accessories.
- ③ Includes Key Code MS1.

Maximum number of contacts: four M22-(C)K01, ...10, or two M22-(C)K02, ...20, ...11. Refer to IL or technical data sheet for more information.

Contact Blocks ①

	Terminal Type	Mounting Location ②	Contact Configuration ③	Catalog Number	
	Screw	Front	NO	M22-K10	
			NO, early-make	M22-K10P	
			NC	M22-K01	
			NC, late-break	M22-K01D	
			NC ④	M22-K01PV6	
			SMCB, NC	M22-K01SMC10	
			SMCB, 2NC	M22-K02SMC10	
			Base	SMCB, NC	M22-KC01SMC10
				SMCB, 2NC	M22-KC02SMC10
				Self-monitoring (1NC and 1NO in series)	Front
2NC	M22-K02SMC10				
Base	1NC	M22-KC01SMC10			
	2NC	M22-KC02SMC10			
	Self-monitoring spring-cage		NC	M22-FK01SMC10	
			3NC	M22-AFK03SMC10	
	Spring-cage	Front	NO	M22-CK10	
			NC	M22-CK01	
			NC, late-break	M22-CK01D	
			2NO	M22-CK20	
			2NC	M22-CK02	
			NO-NC	M22-CK11	
			NC	M22-FK01 ⑤	
			NO	M22-FK10 ⑤	

Light Units ①

	Terminal Type	LED Color	Light Unit Voltage	Catalog Number
	Screw	White	12–30 Vac/Vdc	M22-LED-W
		Red	12–30 Vac/Vdc	M22-LED-R
	Screw	White	85–264 Vac	M22-LED230-W
		Red	85–264 Vac	M22-LED230-R
	Screw	White	207–264 Vac	M22-LED230H-W
		Red	207–264 Vac	M22-LED230H-R
	Spring-cage	White	12–30 Vac/Vdc	M22-FLED-W
		Red	12–30 Vac/Vdc	M22-FLED-R






M22-ES-MS1



Extra Keys ⑥

For Key Code	Catalog Number
MS1	M22-ES-MS1
MS2	M22-ES-MS2
MS3	M22-ES-MS3
MS4	M22-ES-MS4
MS5	M22-ES-MS5
MS6	M22-ES-MS6
MS7	M22-ES-MS7
MS8	M22-ES-MS8

Accessories

Description	Voltage	Catalog Number
 M22-XGPV	—	M22-XGPV
 M22-XGVP	—	M22-XGVP
 M22-MGTA	—	M22-MGTA
 M22-PL-PV	—	M22-PL-PV
 M22-XPV60-Y-120	24 Vac/Vdc	M22-XPV60-Y-24
	120 Vac	M22-XPV60-Y-120
	230 Vac	M22-XPV60-Y-230

Notes

- ① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110.**
- ② Self-monitoring contact blocks (SMCB type) cannot be used with illuminated emergency stops.
- ③ All NC contact blocks are positively driven contact. ⊖
- ④ Allows up to six contact blocks to be utilized, For use only with only M22-PV_.
- ⑤ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.
- ⑥ For use with key release operators only. One key included with operator.

Maximum number of contacts: four M22-(C)K01, ..., 10, or two M22-(C)K02, ..., 20, ..., 11. Refer to IL or technical data sheet for more information.



Contents

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Illuminated Switches	V7-T1-78
Key Operated	V7-T1-82

Selector Switches

Product Description

Eaton’s M22 selector switch line offers an almost endless variety of options in maintained/momentary, key-removal and illuminated devices. The coding adapters used for maintained/momentary and key removal positions make the M22 stand out from competitive devices. By simply adding or removing a coding adapter from inside the operator, the end-user can change the function of the button. Operator options include standard knob, rotary head, illuminated and keyed versions. As with all operators, they can be ordered as a ready to install complete device or as modular components to meet application specific requirements.

Features

- Adding or removing coding adapters allows for field convertibility of maintained/momentary and key removal positions
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than 100,000 mechanical operations
- Coding adapter options make assembly fast and simplify stocking of different configurations of selector switches
- Capable of communicating via ASi protocol with ASi adapter modules

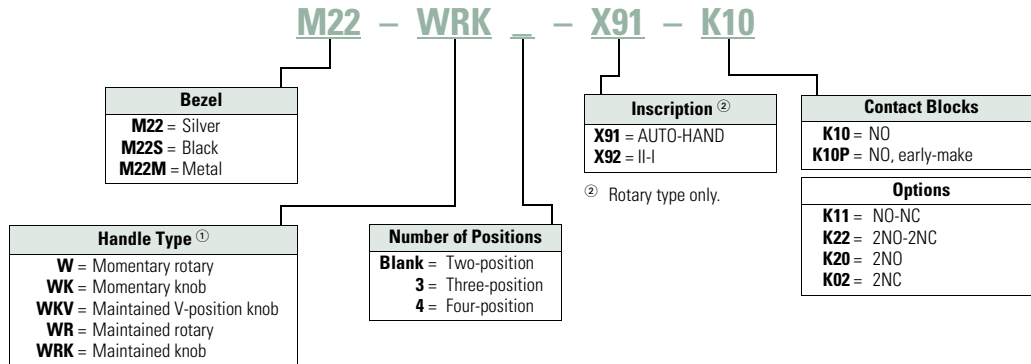
Protection Type

- IP66
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Selector Switches



^① All momentary selector switches can be converted in the field to maintained operation with the removal of a color-coded adapter.

1

Product Selection

Non-Illuminated Selector Switches

M22-WKV-K10



M22M-WKV-K10



Complete Devices, Knob Type ①

Type	Switching Position	Contact Block Configuration ②	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Maintained 40°	NO	M22-WRK-K10	M22S-WRK-K10	M22M-WRK-K10
		1NO-1NC	M22-WRK-K11	M22S-WRK-K11	M22M-WRK-K11
		2NO-2NC	M22-WRK-K22	M22S-WRK-K22	M22M-WRK-K22
	Maintained V 60°	NO	M22-WKV-K10	M22S-WKV-K10	M22M-WKV-K10
		1NO-1NC	M22-WKV-K11	M22S-WKV-K11	M22M-WKV-K11
		2NO-2NC	M22-WKV-K22	M22S-WKV-K22	M22M-WKV-K22
Three-position	Maintained 60° I 0 II 60°	2NO	M22-WRK3-K20	M22S-WRK3-K20	M22M-WRK3-K20
		2NO-2NC	M22-WRK3-K22	M22S-WRK3-K22	M22M-WRK3-K22

Notes

- ① Includes contact block mounting adapter.
- ② All NC contact blocks are positively driven contact. ⊖




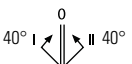

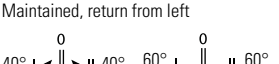
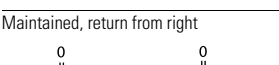


Non-Illuminated Selector Switches

Components

M22-WK



Operators Only, Knob Type ①

Type	Switching Position	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ② 	M22-WK	M22S-WK	M22M-WK
	Maintained 	M22-WRK	M22S-WRK	M22M-WRK
	Maintained V 	M22-WKV	M22S-WKV	M22M-WKV
Three-position	Momentary ② 	M22-WK3	M22S-WK3	M22M-WK3
	Maintained 	M22-WRK3	M22S-WRK3	M22M-WRK3
	Maintained, return from left 	M22-WRK3-2	M22S-WRK3-2	M22M-WRK3-2
	Maintained, return from right 	M22-WRK3-1	M22S-WRK3-1	M22M-WRK3-1
	Maintained 	M22-WRK4	M22S-WRK4	M22M-WRK4
	Maintained 			

Notes

- ① Includes contact block mounting adapter.
- ② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-112**.

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Non-Illuminated Selector Switches

Components

M22S-WR3-X94



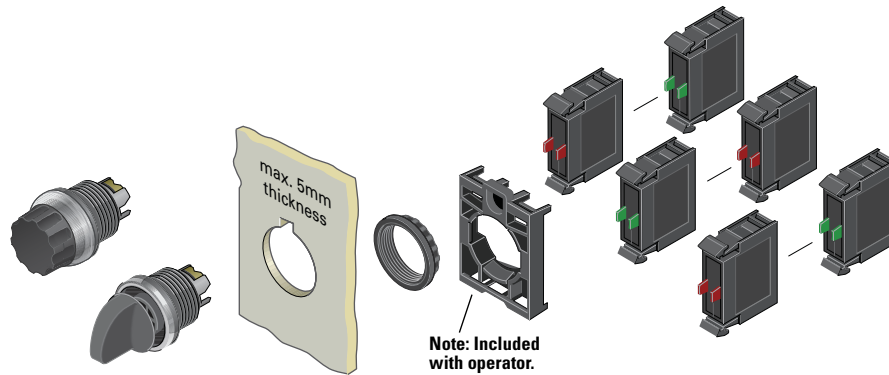
Operators Only, Rotary Type ^①

Type	Switching Position	Inscription	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ^②	I-O	M22-W	M22S-W	M22M-W
	Maintained	I-O	M22-WR	M22S-WR	M22M-WR
		Custom	M22-WR-ETCH ^③	M22S-WR-ETCH ^③	M22M-WR-ETCH ^③
		AUTO-HAND	M22-WR-X91	M22S-WR-X91	M22M-WR-X91
II-I	M22-WR-X92	M22S-WR-X92	M22M-WR-X92		
Three-position	Momentary ^②	I-O-II	M22-W3	M22S-W3	M22M-W3
	Maintained	I-O-II	M22-WR3	M22S-WR3	M22M-WR3
		Custom	M22-WR3-ETCH ^③	M22S-WR3-ETCH ^③	M22M-WR3-ETCH ^③
AUTO-O-MAN	M22-WR3-X94	M22S-WR3-X94	M22M-WR3-X94		
Four-position	Maintained	0-1-0-2-0-3-0-4	M22-WR4	M22S-WR4	M22M-WR4

Notes

- ① Includes contact block mounting adapter.
- ② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-112**.
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-WR3-ETCH; Order Notes: Mark with symbol X88, Line item #_.

Non-Illuminated Selector Switches



Components

M22-K10








M22-FK01



Contact Blocks ^①

Terminal Type	Contact Configuration ^②	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^③
	NO	M22-FK10 ^③

Accessories

	Description	Catalog Number
M22-XW 	Plunger bridge ^④	M22-XW
M22-XWS 	Key cover	M22-XWS
M22-XC-R 	Key withdraw adapter ^⑤	M22-XC-R
M22-XC-Y 	Coding adapter	M22-XC-Y
M22-XGWK 	Guard ring	M22-XGWK

Notes

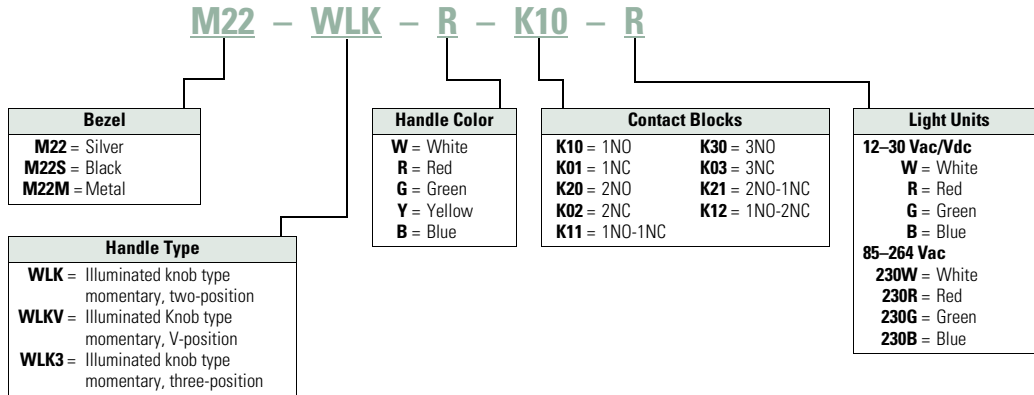
- ① For complete listing of available contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ② All NC contact blocks are positively driven contact. ⊖
- ③ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.
- ④ Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
- ⑤ Enables a keyed selector switch to be set to user-selected key withdraw position.

1

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Illuminated Selector Switches



Product Selection




Illuminated Selector Switches

Components

M22-WLK-W

Operators Only, Knob Type ^①



Type	Switching Position	Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ^② 	White	M22-WLK-W	M22S-WLK-W	M22M-WLK-W
		Red	M22-WLK-R	M22S-WLK-R	M22M-WLK-R
		Green	M22-WLK-G	M22S-WLK-G	M22M-WLK-G
		Yellow	M22-WLK-Y	M22S-WLK-Y	M22M-WLK-Y
		Blue	M22-WLK-B	M22S-WLK-B	M22M-WLK-B
	Maintained 	White	M22-WRLK-W	M22S-WRLK-W	M22M-WRLK-W
		Red	M22-WRLK-R	M22S-WRLK-R	M22M-WRLK-R
		Green	M22-WRLK-G	M22S-WRLK-G	M22M-WRLK-G
		Yellow	M22-WRLK-Y	M22S-WRLK-Y	M22M-WRLK-Y
		Blue	M22-WRLK-B	M22S-WRLK-B	M22M-WRLK-B
	Maintained V 	White	M22-WLKV-W	M22S-WLKV-W	M22M-WLKV-W
		Red	M22-WLKV-R	M22S-WLKV-R	M22M-WLKV-R
		Green	M22-WLKV-G	M22S-WLKV-G	M22M-WLKV-G
		Yellow	M22-WLKV-Y	M22S-WLKV-Y	M22M-WLKV-Y
		Blue	M22-WLKV-B	M22S-WLKV-B	M22M-WLKV-B

Notes

- ① Includes contact block mounting adapter.
- ② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-112**.

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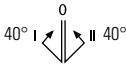
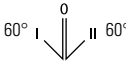


Illuminated Selector Switches

Components

M22-WLK3-W



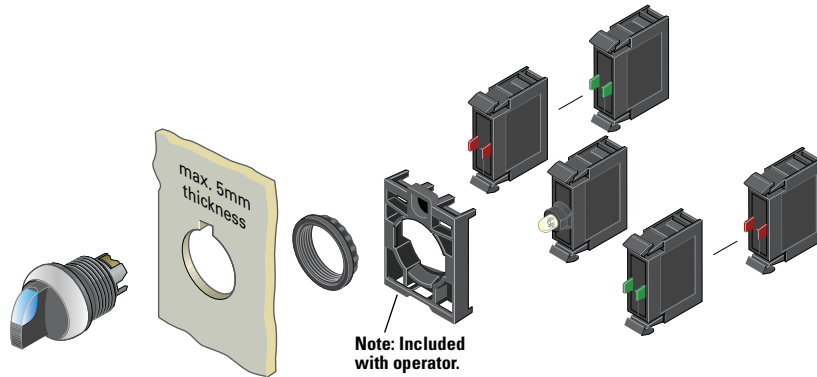
Operators Only, Knob Type ①

Type	Switching Position	Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number	
Three-position	Momentary ② 	White	M22-WLK3-W	M22S-WLK3-W	M22M-WLK3-W	
		Red	M22-WLK3-R	M22S-WLK3-R	M22M-WLK3-R	
		Green	M22-WLK3-G	M22S-WLK3-G	M22M-WLK3-G	
		Yellow	M22-WLK3-Y	M22S-WLK3-Y	M22M-WLK3-Y	
		Blue	M22-WLK3-B	M22S-WLK3-B	M22M-WLK3-B	
		White	M22-WRLK3-W	M22S-WRLK3-W	M22M-WRLK3-W	
	Maintained		Red	M22-WRLK3-R	M22S-WRLK3-R	M22M-WRLK3-R
			Green	M22-WRLK3-G	M22S-WRLK3-G	M22M-WRLK3-G
			Yellow	M22-WRLK3-Y	M22S-WRLK3-Y	M22M-WRLK3-Y
			Blue	M22-WRLK3-B	M22S-WRLK3-B	M22M-WRLK3-B
			White	M22-WRLK3-1-W	M22S-WRLK3-1-W	M22M-WRLK3-1-W
			Red	M22-WRLK3-1-R	M22S-WRLK3-1-R	M22M-WRLK3-1-R
Maintained, return from right		Green	M22-WRLK3-1-G	M22S-WRLK3-1-G	M22M-WRLK3-1-G	
		Yellow	M22-WRLK3-1-Y	M22S-WRLK3-1-Y	M22M-WRLK3-1-Y	
		Blue	M22-WRLK3-1-B	M22S-WRLK3-1-B	M22M-WRLK3-1-B	
		White	M22-WRLK3-2-W	M22S-WRLK3-2-W	M22M-WRLK3-2-W	
		Red	M22-WRLK3-2-R	M22S-WRLK3-2-R	M22M-WRLK3-2-R	
		Green	M22-WRLK3-2-G	M22S-WRLK3-2-G	M22M-WRLK3-2-G	
Maintained, return from left		Yellow	M22-WRLK3-2-Y	M22S-WRLK3-2-Y	M22M-WRLK3-2-Y	
		Blue	M22-WRLK3-2-B	M22S-WRLK3-2-B	M22M-WRLK3-2-B	

Notes

- ① Includes contact block mounting adapter.
- ② Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See [Page V7-T1-112](#).

Illuminated Selector Switches



M22-LED-W



M22-FLED-_-



Light Units ①

Terminal Type	LED Color ②	Light Unit Voltage	Catalog Number
Screw	White	12–30 Vac/Vdc	M22-LED-W
	Red		M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264 Vac	M22-LED230-W
	Red		M22-LED230-R
	Green		M22-LED230-G
	Blue		M22-LED230-B
Spring-cage	White	12–30 Vac/Vdc	M22-FLED-W
	Red		M22-FLED-R
	Green		M22-FLED-G
	Blue		M22-FLED-B
	Red/Green/ Yellow	24 Vdc	M22-FLED-RG ③
	Red, Green, Blue, Yellow, White, Violet, Turquoise		M22-FLED-RGB ③

Accessories

	Description	Catalog Number
M22-XW	Plunger bridge ⑥	M22-XW
M22-XWS	Key cover	M22-XWS
M22-XC-R	Key withdraw adapter ⑦	M22-XC-R
M22-XC-Y	Coding adapter	M22-XC-Y
M22-XGWK	Guard ring	M22-XGWK

M22-K10



M22-FK01



Contact Blocks ①

Terminal Type	Contact Configuration ④	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ⑤
	NO	M22-FK10 ⑤

Notes

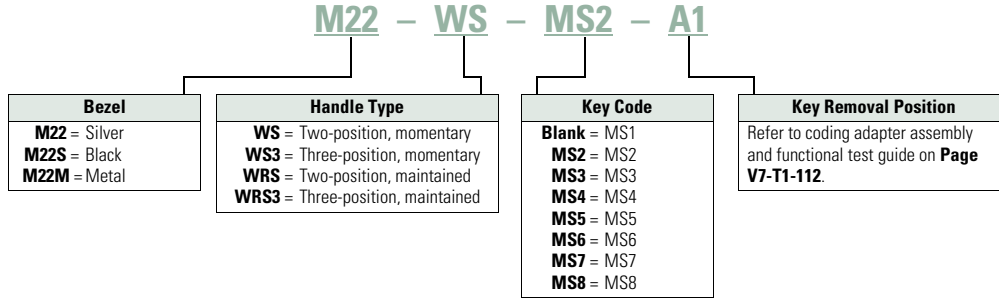
- ① For complete listing of available light units and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ② Select the same color LED element as lens color; for yellow lens, choose a white LED. Select a white lens if utilizing multi-color LED, M22-FLED-RG or M22-FLED-RGB.
- ③ Please see color input key on Page V7-T1-108.
- ④ All NC contact blocks are positively driven contact. ⊖
- ⑤ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.
- ⑥ Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
- ⑦ Enables a keyed selector switch to be set to user-selected key withdraw position.

1

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Key-Operated Selector Switches



Product Selection

Key-Operated Selector Switches ^{①②}

Components

M22-WS



M22S-WRS



Operators Only ^③

Type	Switching Position	Key Removal Position	Key Code	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position	Momentary ^④ 40°	Return from right, key removable left	MS1	M22-WS	M22S-WS	M22M-WS
			MS2	M22-WS-MS2	M22S-WS-MS2	M22M-WS-MS2
			MS3	M22-WS-MS3	M22S-WS-MS3	M22M-WS-MS3
			MS4	M22-WS-MS4	M22S-WS-MS4	M22M-WS-MS4
			MS5	M22-WS-MS5	M22S-WS-MS5	M22M-WS-MS5
			MS6	M22-WS-MS6	M22S-WS-MS6	M22M-WS-MS6
			MS7	M22-WS-MS7	M22S-WS-MS7	M22M-WS-MS7
			MS8	M22-WS-MS8	M22S-WS-MS8	M22M-WS-MS8
			Two-position	Maintained 40°	Key removable left	MS1
MS2	M22-WRS-MS2-A1	M22S-WRS-MS2-A1				M22M-WRS-MS2-A1
MS3	M22-WRS-MS3-A1	M22S-WRS-MS3-A1				M22M-WRS-MS3-A1
MS4	M22-WRS-MS4-A1	M22S-WRS-MS4-A1				M22M-WRS-MS4-A1
MS5	M22-WRS-MS5-A1	M22S-WRS-MS5-A1				M22M-WRS-MS5-A1
MS6	M22-WRS-MS6-A1	M22S-WRS-MS6-A1				M22M-WRS-MS6-A1
MS7	M22-WRS-MS7-A1	M22S-WRS-MS7-A1				M22M-WRS-MS7-A1
MS8	M22-WRS-MS8-A1	M22S-WRS-MS8-A1				M22M-WRS-MS8-A1
Key removable left/right	MS1	M22-WRS			M22S-WRS	M22M-WRS
	MS2	M22-WRS-MS2			M22S-WRS-MS2	M22M-WRS-MS2
	MS3	M22-WRS-MS3			M22S-WRS-MS3	M22M-WRS-MS3
	MS4	M22-WRS-MS4			M22S-WRS-MS4	M22M-WRS-MS4
	MS5	M22-WRS-MS5			M22S-WRS-MS5	M22M-WRS-MS5
	MS6	M22-WRS-MS6			M22S-WRS-MS6	M22M-WRS-MS6
	MS7	M22-WRS-MS7			M22S-WRS-MS7	M22M-WRS-MS7
	MS8	M22-WRS-MS8			M22S-WRS-MS8	M22M-WRS-MS8

Notes

- ① Includes one key.
- ② Key removal positions can be modified in the field using coding adapters; see chart on **Page V7-T1-112**.
- ③ Includes contact block mounting adapter.
- ④ Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-112**.

Key-Operated Selector Switches ①②

Components

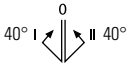
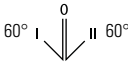
M22-WS3-X93

Operators Only, continued ③



M22M-WS3-X93



Type	Switching Position	Key Removal Position	Key Code	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Three-position	Momentary ④ 	Return from left/right, key removable center	MS1	M22-WS3	M22S-WS3	M22M-WS3
			MS2	M22-WS3-MS2	M22S-WS3-MS2	M22M-WS3-MS2
			MS3	M22-WS3-MS3	M22S-WS3-MS3	M22M-WS3-MS3
			MS4	M22-WS3-MS4	M22S-WS3-MS4	M22M-WS3-MS4
			MS5	M22-WS3-MS5	M22S-WS3-MS5	M22M-WS3-MS5
			MS6	M22-WS3-MS6	M22S-WS3-MS6	M22M-WS3-MS6
			MS7	M22-WS3-MS7	M22S-WS3-MS7	M22M-WS3-MS7
			MS8	M22-WS3-MS8	M22S-WS3-MS8	M22M-WS3-MS8
			Three-position	Maintained 	Key removable center	MS1
MS2	M22-WRS3-MS2-A1	M22S-WRS3-MS2-A1				M22M-WRS3-MS2-A1
MS3	M22-WRS3-MS3-A1	M22S-WRS3-MS3-A1				M22M-WRS3-MS3-A1
MS4	M22-WRS3-MS4-A1	M22S-WRS3-MS4-A1				M22M-WRS3-MS4-A1
MS5	M22-WRS3-MS5-A1	M22S-WRS3-MS5-A1				M22M-WRS3-MS5-A1
MS6	M22-WRS3-MS6-A1	M22S-WRS3-MS6-A1				M22M-WRS3-MS6-A1
MS7	M22-WRS3-MS7-A1	M22S-WRS3-MS7-A1				M22M-WRS3-MS7-A1
MS8	M22-WRS3-MS8-A1	M22S-WRS3-MS8-A1				M22M-WRS3-MS8-A1
Key removable center/left	MS1	M22-WRS3-A2			M22S-WRS3-A2	M22M-WRS3-A2
	MS2	M22-WRS3-MS2-A2			M22S-WRS3-MS2-A2	M22M-WRS3-MS2-A2
	MS3	M22-WRS3-MS3-A2			M22S-WRS3-MS3-A2	M22M-WRS3-MS3-A2
	MS4	M22-WRS3-MS4-A2			M22S-WRS3-MS4-A2	M22M-WRS3-MS4-A2
	MS5	M22-WRS3-MS5-A2			M22S-WRS3-MS5-A2	M22M-WRS3-MS5-A2
	MS6	M22-WRS3-MS6-A2			M22S-WRS3-MS6-A2	M22M-WRS3-MS6-A2
	MS7	M22-WRS3-MS7-A2			M22S-WRS3-MS7-A2	M22M-WRS3-MS7-A2
	MS8	M22-WRS3-MS8-A2			M22S-WRS3-MS8-A2	M22M-WRS3-MS8-A2
Key removable center/right	MS1	M22-WRS3-A3			M22S-WRS3-A3	M22M-WRS3-A3
	MS2	M22-WRS3-MS2-A3			M22S-WRS3-MS2-A3	M22M-WRS3-MS2-A3
	MS3	M22-WRS3-MS3-A3			M22S-WRS3-MS3-A3	M22M-WRS3-MS3-A3
	MS4	M22-WRS3-MS4-A3			M22S-WRS3-MS4-A3	M22M-WRS3-MS4-A3
	MS5	M22-WRS3-MS5-A3			M22S-WRS3-MS5-A3	M22M-WRS3-MS5-A3
	MS6	M22-WRS3-MS6-A3			M22S-WRS3-MS6-A3	M22M-WRS3-MS6-A3
	MS7	M22-WRS3-MS7-A3			M22S-WRS3-MS7-A3	M22M-WRS3-MS7-A3
	MS8	M22-WRS3-MS8-A3			M22S-WRS3-MS8-A3	M22M-WRS3-MS8-A3
Key removable left/center/right	MS1	M22-WRS3			M22S-WRS3	M22M-WRS3
	MS2	M22-WRS3-MS2			M22S-WRS3-MS2	M22M-WRS3-MS2
	MS3	M22-WRS3-MS3			M22S-WRS3-MS3	M22M-WRS3-MS3
	MS4	M22-WRS3-MS4			M22S-WRS3-MS4	M22M-WRS3-MS4
	MS5	M22-WRS3-MS5			M22S-WRS3-MS5	M22M-WRS3-MS5
	MS6	M22-WRS3-MS6			M22S-WRS3-MS6	M22M-WRS3-MS6
	MS7	M22-WRS3-MS7			M22S-WRS3-MS7	M22M-WRS3-MS7
	MS8	M22-WRS3-MS8			M22S-WRS3-MS8	M22M-WRS3-MS8

Notes

- ① Includes one key.
- ② Key removal positions can be modified in the field using coding adapters; see chart on **Page V7-T1-112**.
- ③ Includes contact block mounting adapter.
- ④ Momentary selector switches can be converted in the field to maintained operation with the removal of a color coded adapter. See **Page V7-T1-112**.

Key-Operated Selector Switches ^{①②}

Components

M22-WS3-X93



M22M-WS3-X93



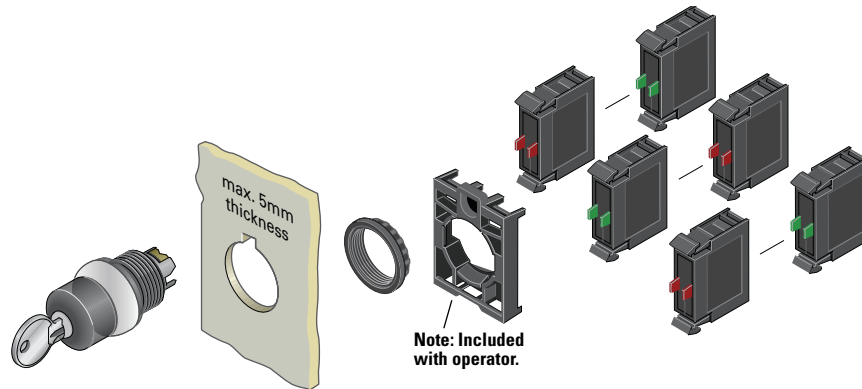
Operators Only, continued ^③

Type	Switching Position	Key Removal Position	Key Code	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number	
Three-position	Maintained 	Return from left, key removable center	MS1	M22-WRS3-A7	M22S-WRS3-A7	M22M-WRS3-A7	
			MS2	M22-WRS3-MS2-A7	M22S-WRS3-MS2-A7	M22M-WRS3-MS2-A7	
			MS3	M22-WRS3-MS3-A7	M22S-WRS3-MS3-A7	M22M-WRS3-MS3-A7	
			MS4	M22-WRS3-MS4-A7	M22S-WRS3-MS4-A7	M22M-WRS3-MS4-A7	
			MS5	M22-WRS3-MS5-A7	M22S-WRS3-MS5-A7	M22M-WRS3-MS5-A7	
			MS6	M22-WRS3-MS6-A7	M22S-WRS3-MS6-A7	M22M-WRS3-MS6-A7	
			MS7	M22-WRS3-MS7-A7	M22S-WRS3-MS7-A7	M22M-WRS3-MS7-A7	
			MS8	M22-WRS3-MS8-A7	M22S-WRS3-MS8-A7	M22M-WRS3-MS8-A7	
	Key removable center		Return from right, key removable left/center	MS1	M22-WRS3-A6	M22S-WRS3-A6	M22M-WRS3-A6
				MS2	M22-WRS3-MS2-A6	M22S-WRS3-MS2-A6	M22M-WRS3-MS2-A6
				MS3	M22-WRS3-MS3-A6	M22S-WRS3-MS3-A6	M22M-WRS3-MS3-A6
				MS4	M22-WRS3-MS4-A6	M22S-WRS3-MS4-A6	M22M-WRS3-MS4-A6
				MS5	M22-WRS3-MS5-A6	M22S-WRS3-MS5-A6	M22M-WRS3-MS5-A6
				MS6	M22-WRS3-MS6-A6	M22S-WRS3-MS6-A6	M22M-WRS3-MS6-A6
				MS7	M22-WRS3-MS7-A6	M22S-WRS3-MS7-A6	M22M-WRS3-MS7-A6
				MS8	M22-WRS3-MS8-A6	M22S-WRS3-MS8-A6	M22M-WRS3-MS8-A6
Three-position	Maintained 	Return from right, key removable left/center	MS1	M22-WRS3-A4	M22S-WRS3-A4	M22M-WRS3-A4	
			MS2	M22-WRS3-MS2-A4	M22S-WRS3-MS2-A4	M22M-WRS3-MS2-A4	
			MS3	M22-WRS3-MS3-A4	M22S-WRS3-MS3-A4	M22M-WRS3-MS3-A4	
			MS4	M22-WRS3-MS4-A4	M22S-WRS3-MS4-A4	M22M-WRS3-MS4-A4	
			MS5	M22-WRS3-MS5-A4	M22S-WRS3-MS5-A4	M22M-WRS3-MS5-A4	
			MS6	M22-WRS3-MS6-A4	M22S-WRS3-MS6-A4	M22M-WRS3-MS6-A4	
			MS7	M22-WRS3-MS7-A4	M22S-WRS3-MS7-A4	M22M-WRS3-MS7-A4	
			MS8	M22-WRS3-MS8-A4	M22S-WRS3-MS8-A4	M22M-WRS3-MS8-A4	
	Key removable left/center/right		Return from right, key removable left/center/right	MS1	M22-WRS3-A5	M22S-WRS3-A5	M22M-WRS3-A5
				MS2	M22-WRS3-MS2-A5	M22S-WRS3-MS2-A5	M22M-WRS3-MS2-A5
				MS3	M22-WRS3-MS3-A5	M22S-WRS3-MS3-A5	M22M-WRS3-MS3-A5
				MS4	M22-WRS3-MS4-A5	M22S-WRS3-MS4-A5	M22M-WRS3-MS4-A5
				MS5	M22-WRS3-MS5-A5	M22S-WRS3-MS5-A5	M22M-WRS3-MS5-A5
				MS6	M22-WRS3-MS6-A5	M22S-WRS3-MS6-A5	M22M-WRS3-MS6-A5
				MS7	M22-WRS3-MS7-A5	M22S-WRS3-MS7-A5	M22M-WRS3-MS7-A5
				MS8	M22-WRS3-MS8-A5	M22S-WRS3-MS8-A5	M22M-WRS3-MS8-A5

Notes

- ① Includes one key.
- ② Key removal positions can be modified in the field using coding adapters; see chart on Page V7-T1-112.
- ③ Includes contact block mounting adapter.

Key-Operated Selector Switches



Components

M22-K10



M22-FK01



M22-ES-MS1



Contact Blocks ^①

Terminal Type	Contact Configuration ^②	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
Spring-cage	NC, late-break	M22-K01D
	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^③
NO	M22-FK10 ^③	

Extra Keys

Key Code	Catalog Number
MS1	M22-ES-MS1
MS2	M22-ES-MS2
MS3	M22-ES-MS3
MS4	M22-ES-MS4
MS5	M22-ES-MS5
MS6	M22-ES-MS6
MS7	M22-ES-MS7
MS8	M22-ES-MS8

Accessories

	Description	Catalog Number
M22-XW 	Plunger bridge ^④	M22-XW
M22-XWS 	Key cover	M22-XWS
M22-XC-R 	Key withdraw adapter ^⑤	M22-XC-R
M22-XC-Y 	Coding adapter	M22-XC-Y
M22-XGWK 	Guard ring	M22-XGWK

Notes

- ① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110.**
- ② All NC contact blocks are positively driven contact. ⊖
- ③ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.
- ④ Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
- ⑤ Enables a keyed selector switch to be set to user-selected key withdraw position.

Mushroom Head Pushbuttons

Product Description

Eaton's M22 mushroom head operators are a durable and unique way to include standard pushbutton functionality. Like the standard pushbutton line, the maintained pushbuttons are field convertible to momentary. They also offer laser engraving and a robust five million mechanical operations on the standard momentary operator. As with all operators, they can be ordered as a ready to install complete device or as modular components.

Features

- Field convertible from maintained to momentary (available on maintained pushbuttons only)
- Customizable laser engraving on all buttons
- More than five million mechanical operations on momentary and one million on maintained pushbuttons
- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Capable of communicating via ASi protocol with ASi adapter modules

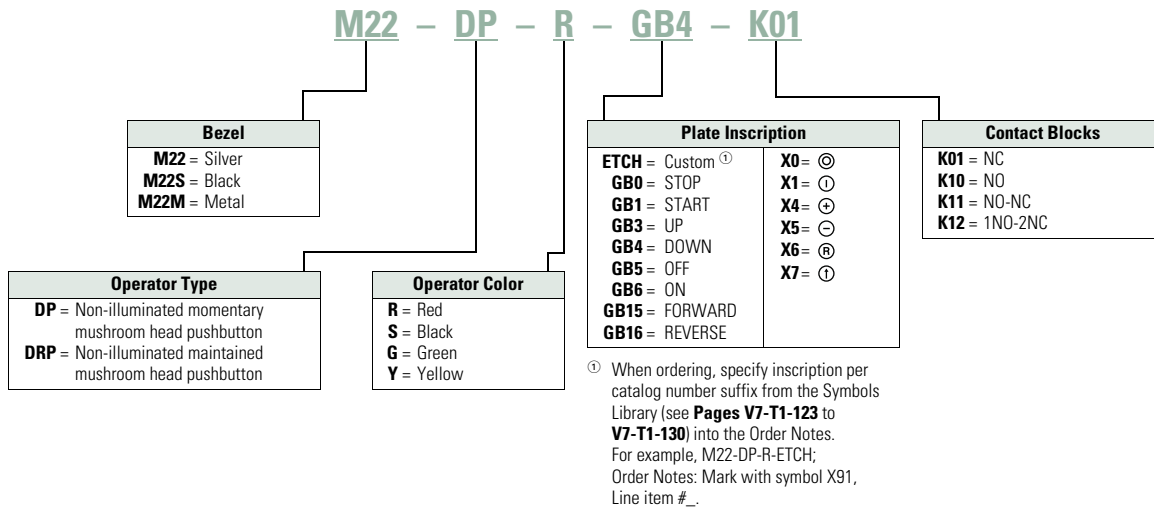
Protection Type

- IP67, IP69K
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Mushroom Head Pushbuttons



1

Product Selection

Mushroom Head Pushbuttons, Momentary ^①

M22-DP-R-K01



M22S-DP-R-K01



M22M-DP-R-K01



Complete Devices

Button Color	Contact Block Configuration ^②	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NC	M22-DP-R-K01	M22S-DP-R-K01	M22M-DP-R-K01
	2NC	M22-DP-R-K02	M22S-DP-R-K02	M22M-DP-R-K02
	1NO-2NC	M22-DP-R-K12	M22S-DP-R-K12	M22M-DP-R-K12
	1NO-1NC	M22-DP-R-K11	M22S-DP-R-K11	M22M-DP-R-K11

M22-DP-G



M22S-DP-G



M22M-DP-G



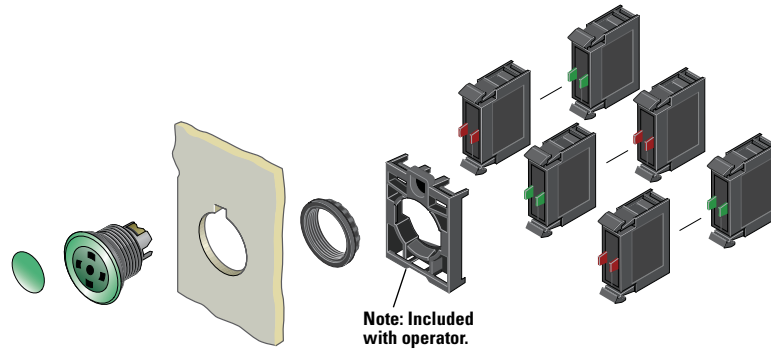
Operators Only ^②

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	M22-DP-S	M22S-DP-S	M22M-DP-S
Red	M22-DP-R	M22S-DP-R	M22M-DP-R
Green	M22-DP-G	M22S-DP-G	M22M-DP-G
Yellow	M22-DP-Y	M22S-DP-Y	M22M-DP-Y

Notes

- ① 35 mm diameter mushroom head button.
- ② Includes contact block mounting adapter. ⇐

Non-Illuminated Mushroom Head Pushbuttons, Momentary ①



Components

M22-XDP-G



Mushroom Head Plates

Color	Inscription	Catalog Number
Black	—	M22-XDP-S ②
	Custom	M22-XDP-S-ETCH ③
	STOP	M22-XDP-S-GB0
	START	M22-XDP-S-GB1
	FORWARD	M22-XDP-S-GB15
	REVERSE	M22-XDP-S-GB16
	UP	M22-XDP-S-GB3
	DOWN	M22-XDP-S-GB4
	OFF	M22-XDP-S-GB5
	ON	M22-XDP-S-GB6
	⊙	M22-XDP-S-X0
	①	M22-XDP-S-X1
	+	M22-XDP-S-X4
	−	M22-XDP-S-X5
①	M22-XDP-S-X7	
Red	—	M22-XDP-R ②
	Custom	M22-XDP-R-ETCH ③
	STOP	M22-XDP-R-GB0
	OFF	M22-XDP-R-GB5
Green	—	M22-XDP-G ②
	Custom	M22-XDP-G-ETCH ③
	START	M22-XDP-G-GB1
	ON	M22-XDP-G-GB6
	⊙	M22-XDP-G-X0
White	—	M22-XDP-W ②
	Custom	M22-XDP-W-ETCH ③
Yellow	—	M22-XDP-Y ②
	Custom	M22-XDP-Y-ETCH ③

M22-DP-G-X



Insertless Mushroom Head Operators

Bezel	Color	Catalog Number
Silver	Black	M22-DP-S-X
	Red	M22-DP-R-X
	Green	M22-DP-G-X
	Yellow	M22-DP-Y-X
Black	Black	M22S-DP-S-X
	Red	M22S-DP-R-X
	Green	M22S-DP-G-X
	Yellow	M22S-DP-Y-X
Metal	Black	M22M-DP-S-X
	Red	M22M-DP-R-X
	Green	M22M-DP-G-X
	Yellow	M22M-DP-Y-X

M22-K10



Contact Blocks ④

Terminal Type	Contact Configuration ⑤	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ⑥
	NO	M22-FK10 ⑥

M22-FK01



Notes

- ① 35 mm diameter mushroom head button.
- ② Minimum order quantity of (10).
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XDP-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ④ For complete listing of available contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110**.
- ⑤ All NC contact blocks are positively driven contact. ⊖
- ⑥ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Product Selection

Non-Illuminated Mushroom Head Pushbuttons, Maintained ^{①②}

M22-DRP-R-K01



M22S-DRP-R-K01



M22M-DRP-R-K01



Complete Devices

Button Color	Contact Block Configuration ^③	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Red	NC	M22-DRP-R-K01	M22S-DRP-R-K01	M22M-DRP-R-K01
	2NC	M22-DRP-R-K02	M22S-DRP-R-K02	M22M-DRP-R-K02
	1NO-2NC	M22-DRP-R-K12	M22S-DRP-R-K12	M22M-DRP-R-K12
	1NO-1NC	M22-DRP-R-K11	M22S-DRP-R-K11	M22M-DRP-R-K11

M22-DRP-G



M22S-DRP-G



M22M-DRP-G

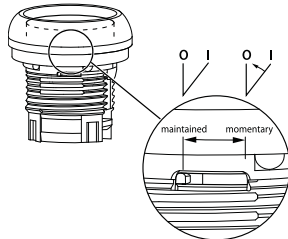


Operators Only

Button Color	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Black	M22-DRP-S	M22S-DRP-S	M22M-DRP-S
Red	M22-DRP-R	M22S-DRP-R	M22M-DRP-R
Green	M22-DRP-G	M22S-DRP-G	M22M-DRP-G
Yellow	M22-DRP-Y	M22S-DRP-Y	M22M-DRP-Y

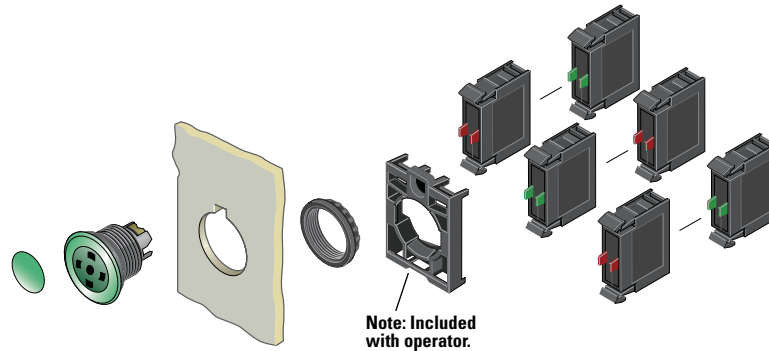
Notes

- ① 35 mm diameter mushroom head button.
- ② Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ③ All NC contact blocks are positively driven contact.



Note: This pilot device features a selectable function switch that enables the device to be set to either maintained or momentary operation.

Non-Illuminated Mushroom Head Pushbuttons, Maintained ^{①②}



Components

M22-XDP-G



Mushroom Head Plates ^③

Color	Inscription	Catalog Number
Black	—	M22-XDP-S ^④
	Custom	M22-XDP-S-ETCH ^⑤
	STOP	M22-XDP-S-GB0
	START	M22-XDP-S-GB1
	FORWARD	M22-XDP-S-GB15
	REVERSE	M22-XDP-S-GB16
	UP	M22-XDP-S-GB3
	DOWN	M22-XDP-S-GB4
	OFF	M22-XDP-S-GB5
	ON	M22-XDP-S-GB6
	⊙	M22-XDP-S-X0
	⓪	M22-XDP-S-X1
	+	M22-XDP-S-X4
	−	M22-XDP-S-X5
	Ⓜ	M22-XDP-S-X7
Red	—	M22-XDP-R ^④
	Custom	M22-XDP-R-ETCH ^⑤
	STOP	M22-XDP-R-GB0
	OFF	M22-XDP-R-GB5
	⊙	M22-XDP-R-X0
Green	—	M22-XDP-G ^④
	Custom	M22-XDP-G-ETCH ^⑤
	START	M22-XDP-G-GB1
	ON	M22-XDP-G-GB6
	⊙	M22-XDP-G-X0
White	—	M22-XDP-W ^④
	Custom	M22-XDP-W-ETCH ^⑤
	—	M22-XDP-Y ^④
Yellow	—	M22-XDP-Y ^④
	Custom	M22-XDP-Y-ETCH ^⑤

M22-DRP-G-X



Insertless Mushroom Head Operators

Bezel	Color	Catalog Number
Silver	Black	M22-DRP-S-X
	Red	M22-DRP-R-X
	Green	M22-DRP-G-X
	Yellow	M22-DRP-Y-X
Black	Black	M22S-DRP-S-X
	Red	M22S-DRP-R-X
	Green	M22S-DRP-G-X
	Yellow	M22S-DRP-Y-X
Metal	Black	M22M-DRP-S-X
	Red	M22M-DRP-R-X
	Green	M22M-DRP-G-X
	Yellow	M22M-DRP-Y-X

M22-K10



Contact Blocks ^③

Terminal Type	Contact Configuration ^⑥	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑦
	NO	M22-FK10 ^⑦

M22-FK01



Notes

- ① 35 mm diameter mushroom head button.
- ② Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.
- ③ For complete listing of available button plates and contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ④ Minimum order quantity of (10).
- ⑤ When ordering, specify inscription per catalog number suffix from the Symbols Library (see Pages V7-T1-123 to V7-T1-130) into the Order Notes. For example, M22-XDP-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ⑥ All NC contact blocks are positively driven contact. ⊖
- ⑦ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Double Pushbuttons

Product Description

Eaton's M22 double pushbutton line is perfect for applications such as motor and pump starting, as well as anytime space is limited. In addition to the two buttons that fit in one 22 mm hole is the integrated white indicating light between them. These three operators allow for multiple functions to occur in a single space. Green/red, black/white and black/black color options along with laser engraving allow for further custom applications.

Features

- Flush and extended, as well as color options allow for the perfect combination button
- Integrated indicating light adds even more functionality in one standard 22 mm hole
- Customizable laser engraving on all buttons
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than 200,000 mechanical operations
- Capable of communicating via ASi protocol with ASi adapter modules

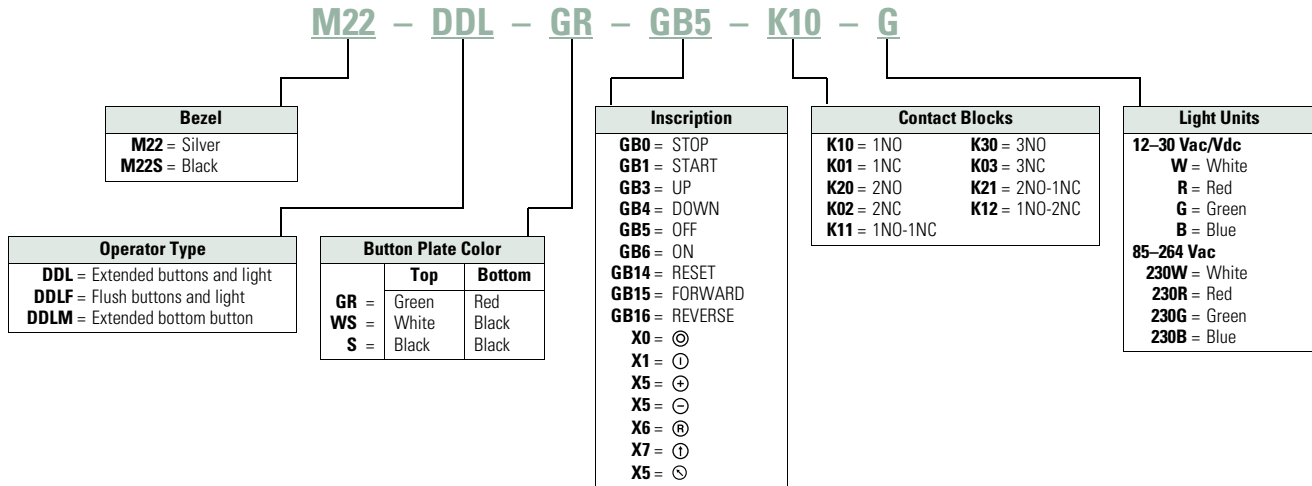
Protection Type

- IP66
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Double Pushbuttons





Product Selection

Components

Double Pushbuttons, Extended Pushbuttons and Center Light, Momentary

Operators Only ^①

	Bezel	Color Top	Bottom	Inscription Top	Bottom	Catalog Number	
	M22-DDL-GR-GB1-GB0	Silver	Green	Red	—	M22-DDL-GR	
					Custom	Custom	M22-DDL-GR-ETCH ^②
					①	Ⓞ	M22-DDL-GR-X1-X0
					START	STOP	M22-DDL-GR-GB1-GB0
					—	—	M22-DDL-WS
					Custom	Custom	M22-DDL-WS-ETCH ^②
			White	Black	—	—	M22-DDL-WS-X1-X0
					①	Ⓞ	M22-DDL-WS-GB1-GB0
					START	STOP	M22-DDL-WS-GB1-GB0
					—	—	M22-DDL-S
					Custom	Custom	M22-DDL-S-ETCH ^②
					—	—	M22-DDL-S-X4-X5
	M22S-DDL-GR-X1-X0	Black	Green	Red	—	M22S-DDL-GR	
					Custom	Custom	M22S-DDL-GR-ETCH ^②
					①	Ⓞ	M22S-DDL-GR-X1-X0
					START	STOP	M22S-DDL-GR-GB1-GB0
					—	—	M22S-DDL-WS
					Custom	Custom	M22S-DDL-WS-ETCH ^②
			White	Black	—	—	M22S-DDL-WS-X1-X0
					①	Ⓞ	M22S-DDL-WS-GB1-GB0
					START	STOP	M22S-DDL-WS-GB1-GB0
					—	—	M22S-DDL-S
					Custom	Custom	M22S-DDL-S-ETCH ^②
					+	—	M22S-DDL-S-X4-X5
Black	Black	—	—	M22S-DDL-S-X7-X7			
		①	①	M22S-DDL-S-X7-X7			



Notes

- ① Includes contact block mounting adapter.
- ② When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-DDL-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

1



Double Pushbuttons, Flush Top Pushbuttons and Center Light, Momentary

Operators Only ^①

	Bezel	Color Top	Bottom	Inscription Top	Bottom	Catalog Number
M22-DDLF-GR 	Silver	Green	Red	—	—	M22-DDLF-GR
		—	—	Custom	Custom	M22-DDLF-GR-ETCH ^②
	—	White	Black	—	—	M22-DDLF-WS
		—	—	Custom	Custom	M22-DDLF-WS-ETCH ^②
		Green	Red	①	⊙	M22-DDLF-GR-X1-X0
White	Black	①	⊙	M22-DDLF-WS-X1-X0		
M22S-DDLF-GR-X1-X0 	Black	Green	Red	—	—	M22S-DDLF-GR
		—	—	Custom	Custom	M22S-DDLF-GR-ETCH ^②
	—	White	Black	—	—	M22S-DDLF-WS
		—	—	Custom	Custom	M22S-DDLF-WS-ETCH ^②
		Green	Red	①	⊙	M22S-DDLF-GR-X1-X0
White	Black	①	⊙	M22S-DDLF-WS-X1-X0		

Double Pushbuttons, Flush Top Pushbutton and Center Light, Extended Bottom Pushbutton, Momentary

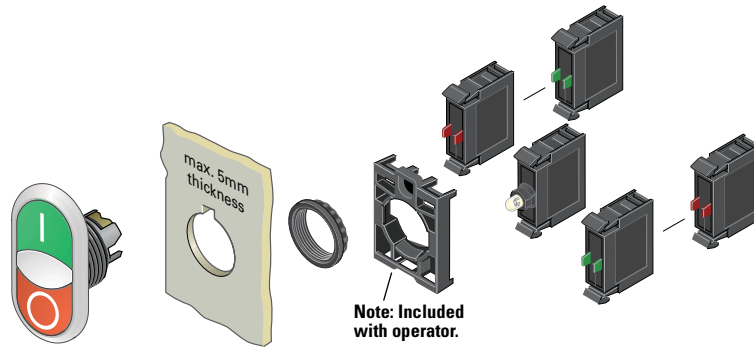
Operators Only ^①

	Bezel	Color Top	Bottom	Inscription Top	Bottom	Catalog Number
M22-DDLM-GR 	Silver	Green	Red	—	—	M22-DDLM-GR
		—	—	Custom	Custom	M22-DDLM-GR-ETCH ^②
	—	White	Black	—	—	M22-DDLM-WS
		—	—	Custom	Custom	M22-DDLM-WS-ETCH ^②
		Green	Red	①	⊙	M22-DDLM-GR-X1-X0
White	Black	①	⊙	M22-DDLM-WS-X1-X0		
M22S-DDLM-GR-X1-X0 	Black	Green	Red	—	—	M22S-DDLM-GR
		—	—	Custom	Custom	M22S-DDLM-GR-ETCH ^②
	—	White	Black	—	—	M22S-DDLM-WS
		—	—	Custom	Custom	M22S-DDLM-WS-ETCH ^②
		Green	Red	①	⊙	M22S-DDLM-GR-X1-X0
White	Black	①	⊙	M22S-DDLM-WS-X1-X0		

Notes

- ① Includes contact block mounting adapter.
- ② When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-DDLM-GR-ETCH; Order Notes: Mark with symbol X91, Line item #_.

Double Pushbuttons



M22-LED-W



Light Units ①

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30	M22-LED-W
	Red	Vac/Vdc	M22-LED-R
	Green		M22-LED-G
	Blue		M22-LED-B
Screw	White	85–264	M22-LED230-W
	Red	Vac	M22-LED230-R
	Green		M22-LED230-G
	Blue		M22-LED230-B
Spring-cage	White	12–30	M22-FLED-W
	Red	Vac/Vdc	M22-FLED-R
	Green		M22-FLED-G
	Blue		M22-FLED-B
	Red/Green/ Yellow	24 Vdc	M22-FLED-RG ②
	Red, Green, Blue, Yellow, White, Violet, Turquoise		M22-FLED-RGB ②

M22-FLED-



M22-K10



Contact Blocks ①

Terminal Type	Contact Configuration ③	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ④
	NO	M22-FK10 ④

M22-FK01



Notes

- ① For complete listing of available light units and contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110.**
- ② Please see color input key on **Page V7-T1-108.**
- ③ All NC contact blocks are positively driven contact. ⊖
- ④ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Four-Way Pushbuttons

Product Description

Eaton's M22 four-way pushbutton is a truly unique offering. A four-way pushbutton offers four different buttons mounted in a single 22 mm hole. This is ideal not only for an application with limited space, but also directional applications (when ordered with the four arrow engraving option). Another unique option is the interlocked version, which prevents two opposite buttons from being actuated at the same time.

Features

- Four buttons in one operator allows for increased functionality in limited space
- Optional interlocking option, which prevents two buttons from being actuated at the same time
- Customizable laser engraving on all buttons for directional or other applications
- Capable of communicating via ASi protocol with ASi adapter modules

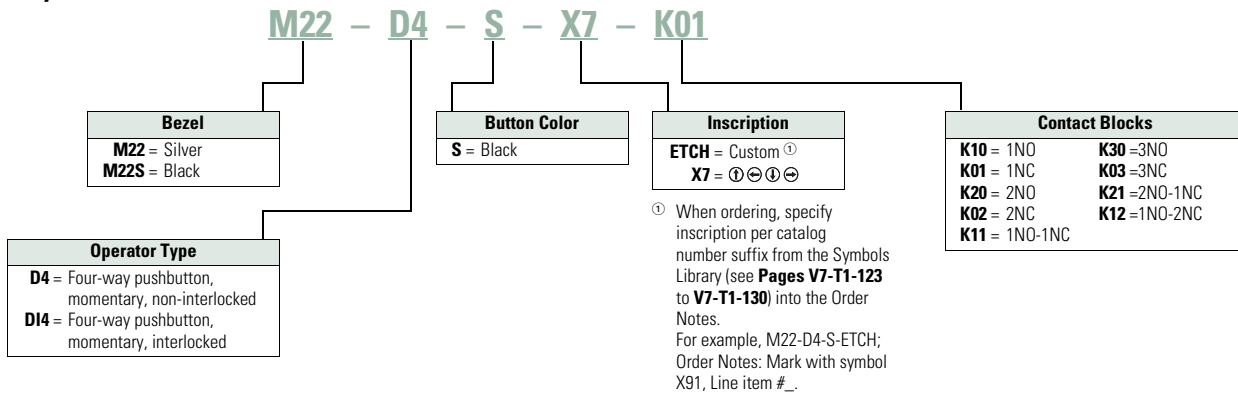
Protection Type

- IP66

Catalog Number Selection

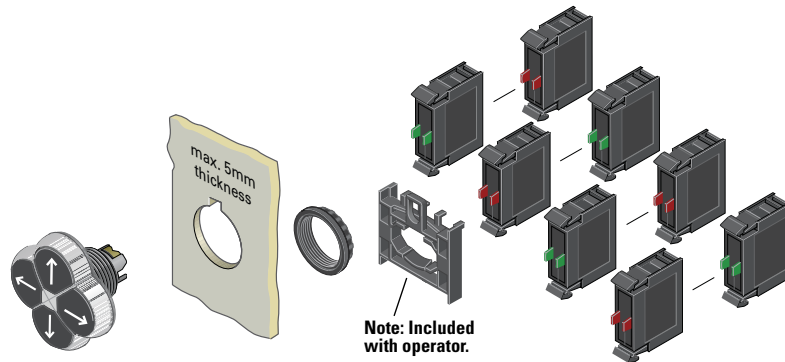
Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Four-Way Pushbuttons



Product Selection

Four-Way Pushbuttons, Momentary



Components

M22-D4-S-X7



Operators Only ^①

Type	Bezel	Color	Inscription	Catalog Number
Non-interlocked	Silver	Black	—	M22-D4-S
			Custom	M22-D4-S-ETCH ^③
			Directional arrows	M22-D4-S-X7
	Black	Black	—	M22S-D4-S
			Custom	M22S-D4-S-ETCH ^③
			Directional arrows	M22S-D4-S-X7
Interlocked	Silver	Black	—	M22-DI4-S
			Custom	M22-DI4-S-ETCH ^③
			Directional arrows	M22-DI4-S-X7
	Black	Black	—	M22S-DI4-S
			Custom	M22S-DI4-S-ETCH ^③
			Directional arrows	M22S-DI4-S-X7

M22-K10



Contact Blocks ^{①②}

Terminal Type	Contact Configuration ^④	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^⑤
NO	M22-FK10 ^⑤	

M22-FK01



Notes

- ① Includes contact block mounting adapter.
- ② For complete listing of available contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110**.
- ③ When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes.
For example, M22-D4-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.
- ④ All NC contact blocks are positively driven contact.
- ⑤ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

1

Joysticks

Product Description

Eaton's M22 joystick line comes in a wide variety of options. From vertical and horizontal two-position switches to the maintained four-position, these operators fit a variety of applications. An additional option, two switch points, allows for eight isolated circuits to be actuated individually on a single operator.

Features

- Available in four-position and two-position
- Two switch point option allows for two contacts in each direction (up to eight total contacts in one operator)
- Capable of communicating via ASi protocol with ASi adapter modules

Protection Type

- IP66

Product Selection

Joysticks

Components

M22-WJ2H



M22M-WJ2H



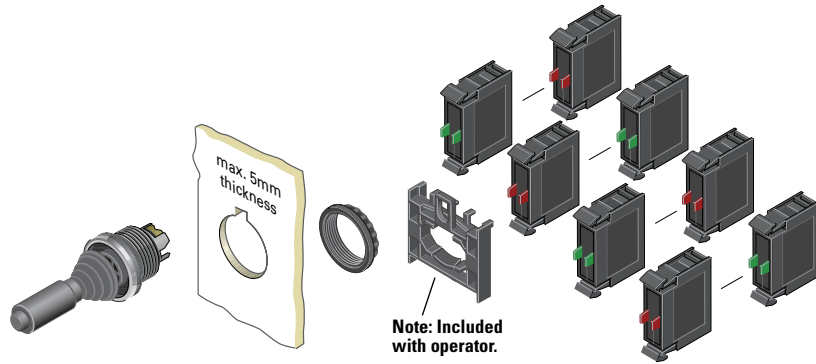
Operators ①

Number of Directions	Switching Position	Silver Bezel Catalog Number	Black Bezel Catalog Number	Metal Bezel Catalog Number
Two-position horizontal	Momentary	M22-WJ2H	M22S-WJ2H	M22M-WJ2H
Two switch points		M22-WJ2H-2P	M22S-WJ2H-2P	M22M-WJ2H-2P
Two-position horizontal	Maintained	M22-WRJ2H	M22S-WRJ2H	M22M-WRJ2H
Two-position vertical	Momentary	M22-WJ2V	M22S-WJ2V	M22M-WJ2V
Two switch points		M22-WJ2V-2P	M22S-WJ2V-2P	M22M-WJ2V-2P
Two-position vertical	Maintained	M22-WRJ2V	M22S-WRJ2V	M22M-WRJ2V
Four-position	Momentary	M22-WJ4	M22S-WJ4	M22M-WJ4
Two switch points		M22-WJ4-2P	M22S-WJ4-2P	M22M-WJ4-2P
Four-position	Maintained	M22-WRJ4	M22S-WRJ4	M22M-WRJ4

Note

① Includes contact block mounting adapter.

Joysticks



M22-K10



M22-FK01



Contact Blocks ^{①②}

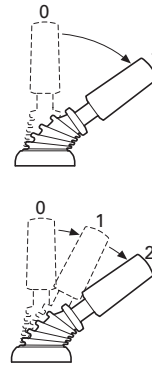
Terminal Type	Contact Configuration ^③	Catalog Number
Screw	NO	M22-K10
	NO, early-make	M22-K10P
	NC	M22-K01
	NC, late-break	M22-K01D
Spring-cage	NO	M22-CK10
	NC	M22-CK01
	NC, late-break	M22-CK01D
	2NO	M22-CK20
	2NC	M22-CK02
	NO-NC	M22-CK11
	NC	M22-FK01 ^④
	NO	M22-FK10 ^④

Notes

- ① Includes contact block mounting adapter.
- ② For complete listing of available contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110.**
- ③ All NC contact blocks are positively driven contact.
- ④ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

Joystick with Double Contact

The joystick allows the control of up to four directions of movement on machines. Different variants of the joystick have two/four-positions and other variants have two settings for each position. This allows, for example, two-speed settings for each direction. For this application, a standard normally open contact and an early-make contact are fitted in series. Momentary contact and latching contact versions are available.



Potentiometers

Product Description

Eaton's M22 potentiometers allow for a ready to use operator in a conveniently sized package. M22 potentiometers include the resistive element, instead of just a knob, and a built in legend surrounding the knob. The slim design, with integrated contacts and the range of resistances available, allows for a quick install.

Features

- Scale markings on the knob allows the operator to be used without an additional legend plate
- Oversized knob option available
- Slim design allows for space saving and simple wiring and installation

Protection Type

- IP66
- NEMA 4X, 13

Product Selection

Potentiometers

M22-R10K



M22M-R10K



Complete Devices

Bezel	Resistance Rk	Catalog Number
Silver	1	M22-R1K
	4.7	M22-R4K7
	10	M22-R10K
	47	M22-R47K
	100	M22-R100K
Black	470	M22-R470K
	1	M22S-R1K
	4.7	M22S-R4K7
	10	M22S-R10K
	47	M22S-R47K
Metal	100	M22S-R100K
	470	M22S-R470K
	1	M22M-R1K
	4.7	M22M-R4K7
	10	M22M-R10K
Oversized Knob	47	M22M-R47K
	100	M22M-R100K
	470	M22M-R470K
	1	M22-R1K-RH
	4.7	M22-R4K7-RH
Silver	10	M22-R10K-RH
	47	M22-R47K-RH
	100	M22-R100K-RH
	470	M22-R470K-RH
	1	M22S-R1K-RH
Black	4.7	M22S-R4K7-RH
	10	M22S-R10K-RH
	47	M22S-R47K-RH
	100	M22S-R100K-RH
	470	M22S-R470K-RH
Metal	1	M22M-R1K-RH
	4.7	M22M-R4K7-RH
	10	M22M-R10K-RH
	47	M22M-R47K-RH
	100	M22M-R100K-RH
470	M22M-R470K-RH	

Acoustic Devices

Product Description

Eaton's M22 acoustic devices are a simple and aesthetic way to add a buzzer or indicator to any application. Fitting in the same 22 mm hole, these devices can be ordered in continuous or pulsed tone and with or without the IP40 enclosure.

Features

- Continuous or pulsed tone available
- 83 dB / 10 cm decibel rating
- Slim design allows for space saving and simple wiring and installation

Protection Type

- IP40
- NEMA 12

Product Selection

Acoustic Devices

M22-AMC-XAM



Complete Devices

Description	Decibel Rating	Catalog Number
Indicator with buzzer, black continuous tone, 18–30 Vdc	83 dB/10 cm	M22-AMC-XAM
Indicator with buzzer, black pulsed tone, 18–30 Vdc	83 dB/10 cm	M22-AMC-XAMP

M22-XAM



Buzzers

Description	Decibel Rating	Catalog Number
Indicator without buzzer, black	83 dB/10 cm	M22-AMC
Buzzer only, continuous tone, 18–30 Vdc	83 dB/10 cm	M22-XAM
Buzzer only, pulsed tone, 18–30 Vdc	83 dB/10 cm	M22-XAMP

Through-the-Door Operators

Product Description

Eaton's M22 through-the-door operators use the same familiar flush pushbutton look with the addition of a cut-to-length rod that allows for a simple reset operator.

Features

- Customizable laser engraving on all buttons
- More than five million mechanical operations
- Pushrod can be cut to length

Protection Type

- IP67, IP69K
- NEMA 4X, 13

Product Selection

Through-the-Door Operators ^①

M22-DZ-B-X6



Complete Devices

Color	Inscription	Catalog Number
Blue	—	M22-DZ-B
	RESET	M22-DZ-B-GB14
	Ⓡ	M22-DZ-B-X6
Red	—	M22-DZ-R
	Ⓢ	M22-DZ-R-X0
	STOP	M22-DZ-R-GB0

M22-DZ-X



Buttonless Operator

Bezel	Catalog Number
Silver	M22-DZ-X
Metal	M22M-DZ-X

M22-XD-B



Button Plates ^②

Color	Inscription	Catalog Number
Blue	—	M22-XD-B ^③
	RESET	M22-XD-B-GB14
	Ⓡ	M22-XD-B-X6
Red	—	M22-XD-R ^③
	Ⓢ	M22-XD-R-X0
	STOP	M22-XD-R-GB0

Bulkhead Interfaces

Product Description

Eaton's M22 bulkhead interfaces are another unique offering in the M22 line. This device allows for a secure connection to any USB or RJ45 connected device within an enclosure or panel. With an IP65 rating when closed, these devices are not only convenient, but robust and reliable.

Features

- Convenient and safe way to make a data connection to inside of the panel without opening the panel door

Protection Type

- IP65 when closed, IP20 when connected

Product Selection

Bulkhead Interfaces

M22-USB-SA



USB Socket ^{④⑤}

Used for USB connection plug IP65 when closed, IP20 when connected.

Bezel	Catalog Number
Silver	M22-USB-SA

M22-RJ45-SA



RJ45 Socket ^⑥

Used for RJ45 Ethernet connection IP65 when closed, IP20 when connected.

Bezel	Catalog Number
Silver	M22-RJ45-SA

Notes

- ^① The pushrod is 3.24 in long and can be cut to length.
- ^② Any combination of plate color and inscription is available.
- ^③ Minimum order quantity of (10).
- ^④ USB interface is complete with 2-ft-long USB cable.
- ^⑤ USB interface is UL Listed, CSA approved and USB 3.0.
- ^⑥ RJ45 interface is an eight-wire connector.

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ASi Adapter Modules**Product Description**

Eaton's M22 ASi adapter modules add functionality to every operator in the M22 line. These devices can be connected to any operator that uses contact blocks or LED units. The simple snap-on design allows for a quick integration of an entire application of operators to a communicating network.

Features

- Allows compatible operators to communicate on an ASi network
- Not only can the status of a contact block be read, but LEDs can be illuminated by an ASi adapter
- ASi adapters simply clip on to the back of the contact blocks and LEDs
- Insulation displacement connectors allow for installation of adapters without any tools
- Two integrated LEDs indicate status of communications

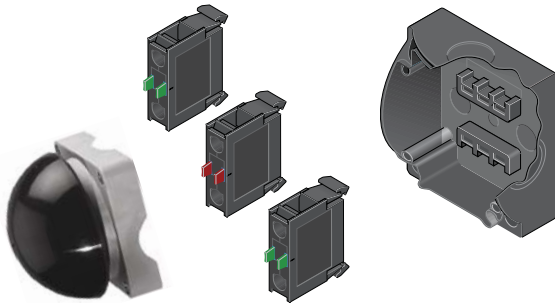
Protection Type

- IP20

Product Selection**ASi Adapter Modules****M22-ASi****Complete Devices**

Description	Catalog Number
ASi adapter module	M22-ASi
ASi adapter module for base mounting	M22-ASi-C
ASi adapter module for E-stop	M22-ASi-S
ASi adapter module for E-stop base mounting	M22-ASi-CS

Palm Switches



Product Description

Eaton’s M22 palm switches are an oversized button that mount directly to an enclosure base. This allows for a standalone button that can be mounted anywhere. The enclosure uses base-mounted contact blocks, which allows for quick wiring and mounting. The palm switches come in momentary or maintained versions. As with other M22 operators, the palm switches are available as complete devices, including the enclosure and contact blocks or as modular components.

Features

- Oversized operator in black, red and yellow color options
- Button integrated directly into an enclosure
- Base mounting contact blocks allow for simple wiring and installation
- More than one million mechanical operations on momentary and 100,000 on maintained operators

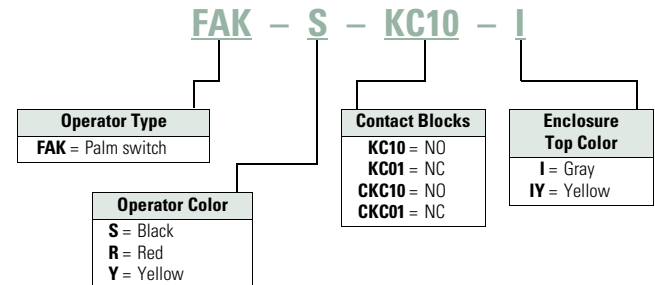
Protection Type

- IP67, IP69K
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Palm Switches, Type 4X/13 Enclosure



Product Selection

Complete Devices

Operator, Base and Contact Blocks ①

Button Color	Contact Block Configuration ②	Catalog Number
FAK-S-KC11-I		
Momentary		
Black	1NO-1NC	FAK-S-KC11-I
Red	1NO-1NC	FAK-R-KC11-I
Yellow	1NO-1NC	FAK-Y-KC11-I
FAK-R-V-KC01-IY		
Maintained		
Red	NC	FAK-R-V-KC01-IY
	2NC	FAK-R-V-KC02-IY
	1NO-2NC	FAK-R-V-KC12-IY
	1NO-1NC	FAK-R-V-KC11-IY

Notes

- ① For complete listing of available contact blocks, see Accessories, Pages V7-T1-105 to V7-T1-110.
- ② All NC contact blocks are positively driven contact. ⊖

Components

FAK-S



Operators Only

Type	Button Color	Catalog Number
Momentary	Black	FAK-S
	Red	FAK-R
	Yellow	FAK-Y
Maintained	Red	FAK-R-V-Y

FAK-IU



Palm Switch Enclosure Base

Catalog Number

FAK-IU

M22-K10

Contact Blocks ^①


Terminal Type	Contact Configuration ^②	Catalog Number
Screw	NO	M22-KC10
	NC	M22-KC01
Spring-cage	NO	M22-CKC10
	NC	M22-CKC01
	NC	M22-FK01 ^③
	NO	M22-FK10 ^③

M22-FK01



Notes

^① For complete listing of available contact blocks, see Accessories, **Pages V7-T1-105 to V7-T1-110**.

^② All NC contact blocks are positively driven contact. 

^③ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

Accessories

Button Plates

M22-XD-S



M22-XDH-R



M22-XDP-G



Color	Inscription	Catalog Number Flush Pushbutton	Catalog Number Extended Pushbutton	Catalog Number Mushroom Head Button
Black	—	M22-XD-S	M22-XDH-S	M22-XDP-S
White	—	M22-XD-W	M22-XDH-W	M22-XDP-W
Red	—	M22-XD-R	M22-XDH-R	M22-XDP-R
Green	—	M22-XD-G	M22-XDH-G	M22-XDP-G
Yellow	—	M22-XD-Y	M22-XDH-Y	M22-XDP-Y
Blue	—	M22-XD-B	M22-XDH-B	—
Black, white, red, green, yellow, blue	—	M22-XD-SWRGYB	M22-XDH-SWRGYB	—
Black, red, green	—	M22-XD-SRG	M22-XDH-SRG	—
Black	Custom	M22-XD-S-ETCH	M22-XDH-S-ETCH	M22-XDP-S-ETCH
White	Custom	M22-XD-W-ETCH	M22-XDH-W-ETCH	M22-XDP-W-ETCH
Red	Custom	M22-XD-R-ETCH	M22-XDH-R-ETCH	M22-XDP-R-ETCH
Green	Custom	M22-XD-G-ETCH	M22-XDH-G-ETCH	M22-XDP-G-ETCH
Yellow	Custom	M22-XD-Y-ETCH	M22-XDH-Y-ETCH	M22-XDP-Y-ETCH
Blue	Custom	M22-XD-B-ETCH	M22-XDH-B-ETCH	—
Black	STOP	M22-XD-S-GB0	M22-XDH-S-GB0	M22-XDP-S-GB0
Red	STOP	M22-XD-R-GB0	M22-XDH-R-GB0	M22-XDP-R-GB0
Black	START	M22-XD-S-GB1	M22-XDH-S-GB1	M22-XDP-S-GB1
White	START	M22-XD-W-GB1	M22-XDH-W-GB1	—
Green	START	M22-XD-G-GB1	M22-XDH-G-GB1	M22-XDP-G-GB1
Black	CLOSE	M22-XD-S-GB2	M22-XDH-S-GB2	—
Black	UP	M22-XD-S-GB3	M22-XDH-S-GB3	M22-XDP-S-GB3
Black	DOWN	M22-XD-S-GB4	M22-XDH-S-GB4	M22-XDP-S-GB4
Black	OFF	M22-XD-S-GB5	M22-XDH-S-GB5	M22-XDP-S-GB5
Red	OFF	M22-XD-R-GB5	M22-XDH-R-GB5	M22-XDP-R-GB5
Black	ON	M22-XD-S-GB6	M22-XDH-S-GB6	M22-XDP-S-GB6
Green	ON	M22-XD-G-GB6	M22-XDH-G-GB6	M22-XDP-G-GB6
Black	TEST	M22-XD-S-GB9	M22-XDH-S-GB9	—
Blue	RESET	M22-XD-B-GB14	M22-XDH-B-GB14	—
Black	FORWARD	M22-XD-S-GB15	M22-XDH-S-GB15	M22-XDP-S-GB15
Black	REVERSE	M22-XD-S-GB16	M22-XDH-S-GB16	M22-XDP-S-GB16
Black	RAISE	M22-XD-S-GB17	M22-XDH-S-GB17	—
Black	LOWER	M22-XD-S-GB18	M22-XDH-S-GB18	—
Black	⊙	M22-XD-S-X0	M22-XDH-S-X0	M22-XDP-S-X0
Red	⊙	M22-XD-R-X0	M22-XDH-R-X0	M22-XDP-R-X0
Green	⊙	—	—	M22-XDP-G-X0
Black	⓪	M22-XD-S-X1	M22-XDH-S-X1	M22-XDP-S-X1
White	⓪	M22-XD-W-X1	M22-XDH-W-X1	—
Green	⓪	M22-XD-G-X1	M22-XDH-G-X1	M22-XDP-G-X1
Black	⓪	M22-XD-S-X2	M22-XDH-S-X2	—
Green	⓪	M22-XD-G-X2	M22-XDH-G-X2	—
Black	⊕	M22-XD-S-X4	M22-XDH-S-X4	M22-XDP-S-X4
Black	⊖	M22-XD-S-X5	M22-XDH-S-X5	M22-XDP-S-X5
Blue	Ⓜ	M22-XD-B-X6	M22-XDH-B-X6	—
Black	⓪	M22-XD-S-X7	M22-XDH-S-X7	M22-XDP-S-X7
Black	⓪	M22-XD-S-X8	M22-XDH-S-X8	—
Black	See ① below	M22-XD-S-X9	M22-XDH-S-X9	—
Black	See ① below	M22-XD-S-X10	M22-XDH-S-X10	—
Black	See ① below	M22-XD-S-X11	M22-XDH-S-X11	—
Black	See ① below	M22-XD-S-X12	M22-XDH-S-X12	—
Black	See ① below	M22-XD-S-X13	M22-XDH-S-X13	—
Black	See ① below	M22-XD-S-X14	M22-XDH-S-X14	—
Black	See ① below	M22-XD-S-X15	M22-XDH-S-X15	—
Black	See ① below	M22-XD-S-X16	M22-XDH-S-X16	—
Black	See ① below	M22-XD-S-X17	M22-XDH-S-X17	—

Note

① Refer to the Symbols Library, (see Pages V7-T1-123 to V7-T1-130), for symbol image.

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M22-XDLH-W



M22-XDL-G



Button Lenses

Color	Inscription	Catalog Number Flush	Catalog Number Extended	Color	Inscription	Catalog Number Flush	Catalog Number Extended
White	—	M22-XDL-W	M22-XDLH-W	Blue	Custom	M22-XDL-B-ETCH	M22-XDLH-B-ETCH
Red	—	M22-XDL-R	M22-XDLH-R	Red	STOP	M22-XDL-R-GB0	M22-XDLH-R-GB0
Green	—	M22-XDL-G	M22-XDLH-G	Green	START	M22-XDL-G-GB1	M22-XDLH-G-GB1
Yellow	—	M22-XDL-Y	M22-XDLH-Y	Red	OFF	M22-XDL-R-GB5	M22-XDLH-R-GB5
Blue	—	M22-XDL-B	M22-XDLH-B	Green	ON	M22-XDL-G-GB6	M22-XDLH-G-GB6
White	Custom	M22-XDL-W-ETCH	M22-XDLH-W-ETCH	Blue	RESET	M22-XDL-B-GB14	M22-XDLH-B-GB14
Red	Custom	M22-XDL-R-ETCH	M22-XDLH-R-ETCH	Red	Ⓢ	M22-XDL-R-X0	M22-XDLH-R-X0
Green	Custom	M22-XDL-G-ETCH	M22-XDLH-G-ETCH	Green	Ⓛ	M22-XDL-G-X1	M22-XDLH-G-X1
Yellow	Custom	M22-XDL-Y-ETCH	M22-XDLH-Y-ETCH	Blue	Ⓜ	M22-XDL-B-X6	M22-XDLH-B-X6

Mounting Adapters

Description	Catalog Number
-------------	----------------

M22-A



Contact block mounting adapter

M22-A

M22-A4



Contact block mounting adapter, four-position (for use with four-way pushbuttons, joysticks and four-position selector switches only).

M22-A4

M22-LS



Allows mounting of M22 pushbuttons to LS-Titan limit switch bodies (for the full LS-Titan catalog section, see **PG08301004E**).

M22-LS

Contact Blocks

M22-K10



M22-FK01



Mounting Location	Terminal Type	Contact Configuration ^①	Package Qty.	Catalog Number		
Front	Screw	NO	1	M22-K10		
		NO	25	M22-K10-B25		
		NO	100	M22-K10-B100		
		NO, early-make	1	M22-K10P		
		NC	1	M22-K01		
		NC	25	M22-K01-B25		
		NC	100	M22-K01-B100		
		NC, late-break	1	M22-K01D		
		SMCB, NC	1	M22-K01SMC10		
		SMCB, 2NC	1	M22-K02SMC10		
		Base		NO	1	M22-KC10
				NO	25	M22-KC10-B25
				NO	100	M22-KC10-B100
				NC	1	M22-KC01
				NC	25	M22-KC01-B25
				NC	100	M22-KC01-B100
SMCB, NC	1			M22-KC01SMC10		
SMCB, 2NC	1			M22-KC02SMC10		
Front	Spring-cage			NO	1	M22-CK10
				NC	1	M22-CK01
		NC, late-break	1	M22-CK01D		
		2NO ^②	1	M22-CK20		
		2NC ^②	1	M22-CK02		
		NO-NC ^②	1	M22-CK11		
		NC	20	M22-FK01 ^③		
		NO	20	M22-FK10 ^③		
		Base		NO	1	M22-CKC10
				NC	1	M22-CKC01

Notes

^① All NC contact blocks are positively driven contact. Ⓢ

^② Not stackable.

^③ Additional contacts may not be stacked behind M22-F type contact blocks, M22-F can be stacked behind standard M22 contacts only.

M22-LED-W



M22-FLED- _



Light Units

Terminal Type	Mounting Location	LED Color	Light Unit Voltage	Catalog Number	
Screw	Front	White	12–30 Vac/Vdc	M22-LED-W	
		Red		M22-LED-R	
		Green		M22-LED-G	
		Blue		M22-LED-B	
		White	85–264 Vac	M22-LED230-W	
		Red		M22-LED230-R	
		Green		M22-LED230-G	
		Blue		M22-LED230-B	
		White	207–264 Vac	M22-LED230H-W	
		Red		M22-LED230H-R	
		Green		M22-LED230H-G	
		Blue		M22-LED230H-B	
	Base	12–30 Vac/Vdc	White	M22-LEDC-W	
			Red	M22-LEDC-R	
			Green	M22-LEDC-G	
			Blue	M22-LEDC-B	
		85–264 Vac	White	M22-LEDC230-W	
			Red	M22-LEDC230-R	
			Green	M22-LEDC230-G	
			Blue	M22-LEDC230-B	
		207–264 Vac	White	M22-LEDC230H-W	
			Red	M22-LEDC230H-R	
			Green	M22-LEDC230H-G	
			Blue	M22-LEDC230H-B	
Spring-cage	Front	White	12–30 Vac/Vdc	M22-CLED-W	
		Red		M22-CLED-R	
		Green		M22-CLED-G	
		Blue		M22-CLED-B	
		White	85–264 Vac	M22-CLED230-W	
		Red		M22-CLED230-R	
		Green		M22-CLED230-G	
		Blue		M22-CLED230-B	
		Base	12–30 Vac/Vdc	White	M22-CLEDC-W
				Red	M22-CLEDC-R
				Green	M22-CLEDC-G
				Blue	M22-CLEDC-B
	85–264 Vac		White	M22-CLEDC230-W	
			Red	M22-CLEDC230-R	
			Green	M22-CLEDC230-G	
			Blue	M22-CLEDC230-B	
	Front		12–30 Vac/Vdc	White	M22-FLED-W
				Red	M22-FLED-R
				Green	M22-FLED-G
				Blue	M22-FLED-B
		24 Vdc	Red/Green/Yellow	M22-FLED-RG ①	
			Red, Green, Blue, Yellow, White, Violet, Turquoise	M22-FLED-RGB ①	

M22-XLED60



LED Resistor and Test Elements

Terminal Type	Mounting Location	Element Type	Voltage	Catalog Number
Screw	Front	Resistor ②③	42–60 Vac/Vdc	M22-XLED60
			220 Vdc	M22-XLED220
		Test	12–240 Vac/Vdc	M22-XLED-T
			85–264 Vac	M22-XLED230-T



Notes

- ① Please see color input key on **Page V7-T1-108**.
- ② Resistor units to be used with 12–30V light units.
- ③ Refer to **IL04716002E** for use of resistor elements in series for higher DC voltage.

Multi-Color LED Input Guide

Catalog Number		Terminal Color			
		X1 +R	X2 +G	X3 +B	X4 GND
M22-FLED-RG	Red	■	—	—	■
	Green	—	■	—	■
	Yellow	■	■	—	■
M22-FLED-RGB	Red	■	—	—	■
	Green	—	■	—	■
	Yellow	■	■	—	■
	White	■	■	■	■
	Blue	—	—	■	■
	Violet	■	—	■	■
	Turquoise	—	■	■	■

Legend Plate Holders and Inserts, Pushbuttons and Double Pushbuttons ^①

	Description	Inscription	Catalog Number
M22S-ST-X 	Legend plate holder, without legend plate insert, for pushbuttons	—	M22S-ST-X
	Legend plate holder, without legend plate insert, for double pushbuttons	—	M22S-STDD-X
M22-XST-GB0 	Legend plate insert	—	M22-XST
		Custom	M22-XST-ETCH ^②
		STOP	M22-XST-GB0
		START	M22-XST-GB1
		OFF	M22-XST-GB5
		ON	M22-XST-GB6
		RUN	M22-XST-GB7
		FAULT	M22-XST-GB8
		OFF ON	M22-XST-GB10
		MAN. AUTO	M22-XST-GB11
		MAN. O AUTO	M22-XST-GB12
		HAND AUTO	M22-XST-D11
		HAND O AUTO	M22-XST-D12
		1	M22-XST-X52
		2	M22-XST-X53
	O I	M22-XST-X88	
	O - I	M22-XST-X89	
	I O II	M22-XST-X93	

Notes







- ① Legend plates are IP66 and NEMA 4X/13.
- ② When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XD-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

Example

To order a legend plate for a pushbutton with non-standard markings (FORWARD):

1. Select legend plate holder—M22S-ST-X.
2. Select legend plate insert—M22-XST-ETCH.
3. Select FORWARD from the Symbols Library, **Pages V7-T1-123 to V7-T1-130**, identified by GB15 suffix.
4. Indicate on the order form in the order notes—suffix GB15, line item # ____ .

Legend Plates, Complete ①

	Description	Inscription	Catalog Number	
M22S-ST-GB0 	For use with pushbuttons and indicating lights	Legend plate holder with insert	STOP M22S-ST-GB0	
			START M22S-ST-GB1	
			OFF M22S-ST-GB5	
			ON M22S-ST-GB6	
			RUN M22S-ST-GB7	
			FAULT M22S-ST-GB8	
			1 M22S-ST-X52	
			2 M22S-ST-X53	
		Selector switches		OFF ON M22S-ST-GB10
				MAN. AUTO M22S-ST-GB11
	MAN. 0 AUTO M22S-ST-GB12			
	HAND AUTO M22S-ST-D11			
	HAND 0 AUTO M22S-ST-D12			
	0 I M22S-ST-X88			
	0 - I M22S-ST-X89			
	I 0 II M22S-ST-X93			
M22-XZK 	Emergency-stop operators		Rectangular yellow legend plate	— M22-XZK
				Custom M22-XZK-ETCH ②
			EMERGENCY-STOP M22-XZK-GB99	
M22-XYK 	Square yellow legend plate		— M22-XYK	
			— M22-XYK-ETCH ②	
			EMERGENCY-STOP four-language M22-XYK1	
			EMERGENCY-STOP (top and bottom) M22-XYK5	
		M22-XBK1 	Round yellow legend plate, 90 mm	
	Custom M22-XAK-ETCH ②			
	EMERGENCY-STOP four-language M22-XAK1			
	EMERGENCY-STOP (top and bottom) M22-XAK5			
M22-XBK1 	Round yellow legend plate, 60 mm			
			Custom M22-XBK-ETCH ②	
			EMERGENCY-STOP four-language M22-XBK1	
			EMERGENCY-STOP (top and bottom) M22-XBK5	
		M22-XCK1 	Four-way pushbutton, joystick and four-position selector switches	
	Custom M22-XCK-ETCH ②			
	Four directional arrows M22-XCK1			
	0-1-0-2-0-3-0-4 M22-XCK2			
	Two directional arrows M22-XCK3			

Notes

- ① Legend plates are IP66 and NEMA 4X/13.
- ② When ordering, specify inscription per catalog number suffix from the Symbols Library (see **Pages V7-T1-123 to V7-T1-130**) into the Order Notes. For example, M22-XD-S-ETCH; Order Notes: Mark with symbol X91, Line item #_.

Surface Mounting Enclosures ①

M22-IY1-PG



Description	Catalog Number
Yellow top, black base for emergency-stop operators	M22-IY1-PG

M22-IY-PG



Description	Catalog Number
One-element enclosure	M22-I1-PG
Two-element enclosure	M22-I2-PG
Three-element enclosure	M22-I3-PG
Four-element enclosure	M22-I4-PG
Six-element enclosure	M22-I6-PG
M20 connecting screw	M22-XI
M20 cord grip	V-M20

M22-EY1



Flush Mounting Plates, Aluminum

Finish	Rating	Catalog Number
One Hole		
Yellow paint for emergency-stop operators	—	M22-EY1
Two Holes		
Gray anodized	IP65	M22-E1
Gray anodized	IP65	M22-E2
Three Holes		
Gray anodized	IP65	M22-E3
Four Holes		
Gray anodized	IP65	M22-E4
Five Holes		
Gray anodized	IP65	M22-E5
Six Holes		
Anodized	IP40	M22-E6

M22-H1



Shrouds, Plastic

Description	Rating	Catalog Number
One-element	IP55	M22-H1
Two-element	IP55	M22-H2
Three-element	IP55	M22-H3
Four-element	IP40	M22-H4
Five-element	IP40	M22-H5
Six-element	IP40	M22-H6
Mounting plate	—	M22-XE5
Plaster keys for flush mounting	—	M22-UPE

Selector Switch Accessories

M22-XW



Description	Catalog Number
Plunger bridge ②	M22-XW

M22-XWS



Key cover	M22-XWS
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M22-XC-R



Key withdraw adapter ③	M22-XC-R
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M22-XC-Y



Coding adapter	M22-XC-Y
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M22-XGWK








Guard ring	M22-XGWK
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Notes

- ① Requires use of base mounted contact blocks.
- ② Plunger needed to actuate center-mounted contact blocks. Used for non-illuminated three-position selector switches only.
- ③ Enables a keyed selector switch to be set to user-selected key withdraw position.


Emergency Stop Operator Accessories

	Description	Voltage	Catalog Number
	Yellow guard ring	—	M22-XGPV
	Gray guard ring	—	M22G-XGPV
	Rectangular guard	—	M22-MGTA
	Sealing shroud	—	M22-PL-PV
	Illuminated ring	24 Vac/Vdc	M22-XPV60-Y-24
		120 Vac	M22-XPV60-Y-120
		230 Vac	M22-XPV60-Y-230

Blanking Plugs

	Color	Catalog Number
	Gray	M22-B
	Black	M22S-B

Notching Tool


 Punching tool used to produce the cutout for the anti-rotation tab as defined in IEC/EN 60947-5-1.

Description	Unit	Article Number	Catalog Number
St 37 sheet steel: Max. 3 mm thickness	1	028144	M22-NT
Stainless steel: Max. 1.5 mm thickness			


Mounting Accessories

	Description	Catalog Number
	Telescopic clip with top-hat rail	M22-TC
	Telescopic clip	M22-TA
	Telescopic clip extension	M22-TCV
	DIN rail mounting adapter	M22-IVS
	Mounting ring	M22-GR
	Mounting ring tool	M22-MS
	Adapter ring set for 30 mm holes	M22S-R30

Protective Diaphragm

	For Use with ...	Catalog Number
	Flush pushbuttons and indicating lights	M22-T-D
	Double pushbuttons	M22-T-DD

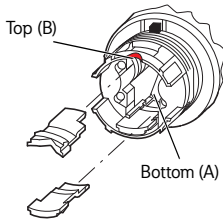
Dust Covers

	Description	Catalog Number
	Contact block dust cover	M22-XKDP
	Operator dust cover, max three contact blocks	M22-ADC
	Operator dust cover, max four contact blocks	M22-ADC4

Kits

Description	Catalog Number
Includes one each: M22-XW, M22-XC-R, M22-XC-Y, M22S-B, M22-A, M22-XD-SWRGYB	M22-KT1

Coding Adapter Guide Selector Switches



Two-Position Selector Switch

Top (B)	Bottom (A)	Catalog Number	Function
		M22(S)-W(L)(K)	Momentary
		M22(S)-WR(L)(K)	Maintained

Three-Position Selector Switch

Top (B)	Bottom (A)	Catalog Number	Function Left	Right
		M22(S)-W(L)(K)3	Momentary	Momentary
		M22(S)-WR(L)(K)3	Maintained	Maintained
		M22(S)-WR(L)(K)3-1	Maintained	Momentary
		M22(S)-WR(L)(K)3-2	Momentary	Maintained

Two-Position Key-Operated Selector Switch

Top (B)	Bottom (A)	Catalog Number	Center Key Withdraw	Right Function	Key Withdraw
		M22(S)-WS	Yes	Momentary	No
		M22(S)-WRS	Yes	Maintained	Yes
		M22(S)-WRS-A1	Yes	Maintained	No

Three-Position Key-Operated Selector Switch

Top (B)	Bottom (A)	Catalog Number	Left Function	Key Withdraw	Center Key Withdraw	Right Function	Key Withdraw
		M22(S)-WS3	Momentary	No	Yes	Momentary	No
		M22(S)-WRS3	Maintained	Yes	Yes	Maintained	Yes
		M22(S)-WRS3-A1	Maintained	No	Yes	Maintained	No
		M22(S)-WRS3-A2	Maintained	Yes	Yes	Maintained	No
		M22(S)-WRS3-A3	Maintained	No	Yes	Maintained	Yes
		M22(S)-WRS3-A4	Maintained	Yes	Yes	Momentary	No
		M22(S)-WRS3-A5	Maintained	No	Yes	Momentary	No
		M22(S)-WRS3-A6	Momentary	No	Yes	Maintained	Yes
		M22(S)-WRS3-A7	Momentary	No	Yes	Maintained	No

Technical Data and Specifications

Pushbuttons, Indicating Lights, Selector Switches and Emergency-Stop Operators

Description		Momentary Pushbuttons	Maintained Pushbuttons	Indicating Lights, Buzzers and Potentiometers	Emergency-Stop Operators	Selector Switches	Key-Operated Operators	Double Pushbuttons
General								
Standards		IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #340491	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184
Lifespan, mechanical	Operations	x 10 ⁶ >5	>1	—	>0.1	>0.1	>0.1	>0.2
Operating frequency	Operations/h	≥3600	≥1800	—	≥600	≥2000	≥100	≥3600
Actuating force	n	≥5	≥5	—	≥50	—	—	≥5
Operating torque (screw terminals)	Nm	—	—	—	—	≥0.3	≥0.5	—
Protection Type								
IP		IP67, IP69K	IP67, IP69K	Indicating lights: IP67, 69K Buzzers: IP40 Potentiometers: IP66	IP67, IP69K	IP66	IP66	IP66
UL type		4X, 13	4X, 13	Indicating lights: 4X/13 Buzzers: 12 Potentiometers: 4X/13	4X, 13	4X, 13	4X, 13	4X, 13
Climatic proofing		Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30						
Ambient temperature, operating		°F (°C)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)
Mounting position		As required						
Mechanical shock resistance to IEC 60068-2-27 shock duration 11 ms, half-sinusoidal		g	>30	>30	>30	>50	>30	>30
Terminal Capacities								
Solid		AWG	—	—	20-16	—	—	—
		mm ²	—	—	0.5–1.5	—	—	—
Stranded		AWG	—	—	20-16	—	—	—
		mm ²	—	—	0.5–1.5	—	—	—
Contacts								
Rated impulse withstand voltage		U _{imp}	Vac	—	4000	—	—	—
Rated insulation voltage		U _i	V	—	2500	—	—	—
Overvoltage category/pollution degree		—	—	—	III/3	—	—	—

Contact Blocks and Light Units

Description			Contact Blocks	LED Light Units
General				
Standards			IEC/EN 60947 VDE 0660 UL #E29184	IEC/EN 60947 VDE 0660 UL #E29184
Lifespan, mechanical	Operations	x 10 ⁶	>5	—
Operating frequency	Operations/h		≥3600	—
Actuating force	n		≥5	—
Operating torque (screw terminals)	Nm		≤0.8	—
Protection Type				
IP			IP20	IP20
UL type			—	—
Climatic proofing			Damp heat, constant, according to IEC 60068-2-78 Damp heat, cyclical to IEC 60068-2-30	
Ambient temperature, operating	°F (°C)		–13 to 158 (–25 to 70)	–13 to 158 (–25 to 70)
Mounting position			As required	As required
Mechanical shock resistance to IEC 60068-2-27 shock duration 11 ms, half-sinusoidal	g		>30	>30
Terminal Capacities				
Solid	AWG		18–14	18–14
	mm ²		0.75–2.5	0.75–2.5
Stranded	AWG		20–14	20–14
	mm ²		0.5–2.5	0.5–2.5
Contacts				
Rated impulse withstand voltage	U _{imp}	Vac	6000	6000
Rated insulation voltage	U _i	V	500	500
Overvoltage category/ pollution degree			III/3	III/3
NEMA contact ratings			A600, Q300	—
Current draw			—	5–15 mA
Control Circuit Reliability				
at 24 Vdc/5 mA	H _F	Fault probability	<10 ⁻⁷ , <1 fault in 10 ⁷ operations	—
at 5 Vdc/1 mA	H _F	Fault probability	<5 x 10 ⁻⁶ , <1 fault in 5 x 10 ⁶ operations	—
Max. Short-Circuit Protective Device				
Fuse	gG/gL	A	10	—
Switching Capacity				
Rated Operational Current				
AC-15				
115V	I _e	A	6	—
230V	I _e	A	6	—
400V	I _e	A	4	—
500V	I _e	A	2	—
DC-13				
24V	I _e	A	3	—
42V	I _e	A	1.7	—
60V	I _e	A	1.2	—
110V	I _e	A	0.6	—
220V	I _e	A	0.3	—
Lifespan, Electrical				
AC-15				
230V/0.5A	Operations	x 10 ⁶	1.6	—
230V/1.0A	Operations	x 10 ⁶	1	—
230V/3.0A	Operations	x 10 ⁶	0.7	—
DV-13				
12V/2.8A	Operations	x 10 ⁶	1.2	—

Contact Element Note: >200 Vac/60 Hz: –25/55°C

Palm Switches

Description		Momentary	Maintained	FAK-R-V-KC11-I
General				
Standards		IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660	IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations x 10 ⁶	>1	>0.1	>0.1
Operating frequency	Operations/h	≥3600	≥600	≥600
Actuating force	n	20–40	40–60	15–25
Operating torque	Nm	—	—	—
Degree of protection, IEC/EN 60529	IP	IP67, IP69K	IP67, IP69K	IP65
	UL Type	4X, 13	4X, 13	4X, 13
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature, operating	°F (°C)	–73 to 104 (–25 to 40)	–73 to 104 (–25 to 40)	–73 to 104 (–25 to 40)
Mounting position		As required		
Mechanical shock resistance to IEC 60068-2-27 shock duration 11 ms, half-sinusoidal	g	>15	>15	>15

ASi Adapter Modules

Description		M22-ASI	M22-ASI-C
General			
Standards		IEC/EN 60947, DIN EN 50295	IEC/EN 60947, DIN EN 50295
Radio interference suppression		EN 55011, EN 55022	EN 55011, EN 55022
Limit value class		—	—
Protection type		IP20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30	
Ambient temperature, operating	°F (°C)	–13 to 131 (–25 to 55)	–13 to 131 (–25 to 55)
Shock resistance shock duration 11 ms	g	>30	>30
Vibration to IEC 60068-2-27 (amplitude 1 mm)	Hz	—	—
Dimensions		mm	—
Weight		kg	—
Mounting		Front mounting	Front mounting
Mounting position		As required	As required
Power Supply			
Rated voltage to AS-interface specification	Vdc	26.5–31.6	26.5–31.6
Connection technique		Yellow plug-in terminal as insulation piercing terminal	Two cables onboard
Power supply		Completely from the AS-interface cable	
Addressing		Via connection to AS-interface cable	
Total power consumption of the AS-interface	mA	≥40	≥40
AS-interface		—	—
Rated operational current at full load	mA	—	—
Rated operational current when idle (no I, O set)	mA	—	—
Status LEDs		POWER AS-interface cable: green LED on the rear side of the element ERROR AS-interface, AS-interface master failure: red LED on the rear side of the element	POWER AS-interface cable: green LED on the board ERROR AS-interface, AS-interface master failure: red LED on the board

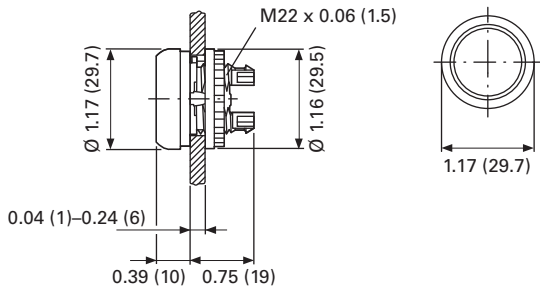
ASI-S Adapter Modules

Description		M22-ASI-S	M22-ASI-CS
Inputs			
Inputs, protected against short-circuit	Number	Two (normally 22V/5 mA)	Two (normally 22V/5 mA)
Voltage range	Vdc	—	—
Rated current per input	mA	—	—
High signal level	V	—	—
Low signal	mA	—	—
Length of connecting cables	cm	—	—
Outputs			
Outputs, protected against short-circuit	Number	One (normally 19V/8 mA)	One (normally 19V/8 mA)
Voltage range	Vdc	—	—
Max. Current Carrying Capacity			
All outputs		—	—
Σ three external outputs		—	—
Length of connecting cables	cm	—	—
Profile		S-3.A.E	S-3.A.E
Specification		2.1	2.1
Addresses	Number	62	62
Emergency-Stop Circuits			
Connection of the AS-interface line		Yellow plug terminal with insulation piercing	Two cables on the circuit board
Power supply		Complete from AS-interface, cable 26.5–31.6 Vdc	Complete from AS-interface, cable 26.5–31.6 Vdc
Fixing		Front mounted	Base mounted
Addressing		Via AS-interface cable	Via AS-interface cable
Max. total current	A	45 mA	45 mA
Ambient temperature, operating	°F (°C)	–13 to 131 (–25 to 55)	–13 to 131 (–25 to 55)
Shock resistance		30g/11 ms as per IEC 60068-2-27	30g/11 ms as per IEC 60068-2-27
Protection type		IP20	IP00
Climatic proofing		Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30	Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30
Mounting position		As required	As required
Standards		EN 50178 EN 50 295	EN 50178 EN 50 295
Inputs		Two-channel input (22V/5 mA) (moduled by code sequence) (two break contact sets M22-K01)	Two-channel input (22V/5 mA) (moduled by code sequence) (two break contact sets M22-K01)
Outputs		One output, typically 19V/8 mA, short-circuit proof	One output, typically 19V/8 mA, short-circuit proof
Status Displays			
Power, AS-interface cable		Green LED on the back	Green LED on the back
AS-interface error, AS-interface master failure		Red LED on the back	Red LED on the back
Profile		S-7.B.E	S-7.B.E

Dimensions

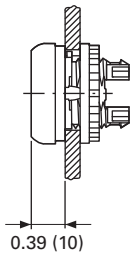
Approximate Dimensions in Inches (mm)

Operators and Indicating Lights

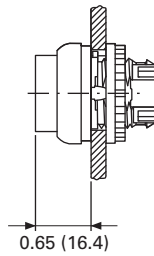


Pushbuttons

M22...-D-

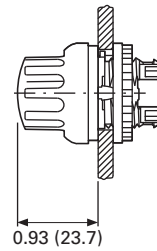


M22...-DH-

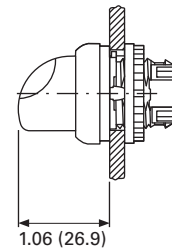


Selector Switches Operators

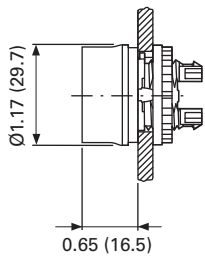
M22...-W-



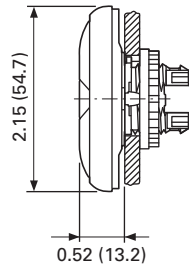
M22...-WL-



M22-DG(L)-

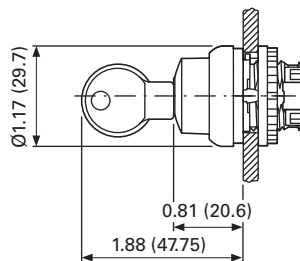


M22...-DD-

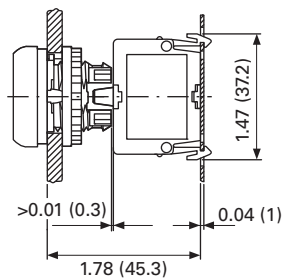


Key-Operated Selector Switches

M22...-W(R)S-

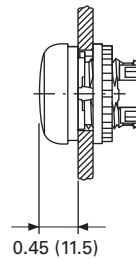


M22-D, Base Mounted



Indicating Light

M22-L



1.4

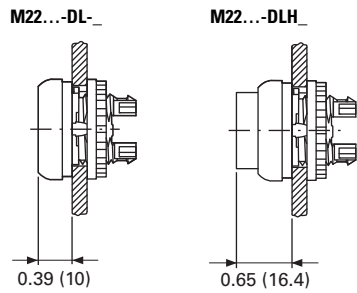
Pushbuttons and Indicating Lights

22.5 mm RMQ-Titan Modular Pushbuttons—M22

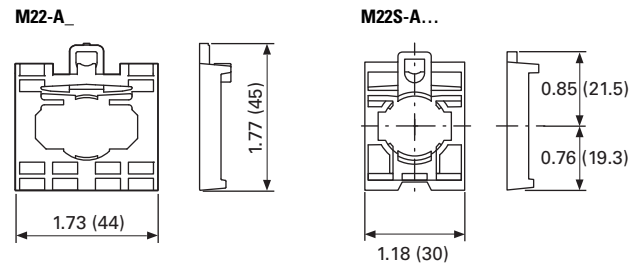
1

Approximate Dimensions in Inches (mm)

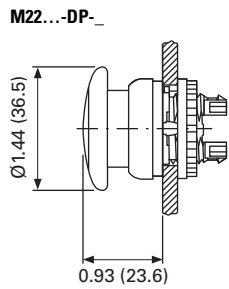
Illuminated Pushbuttons



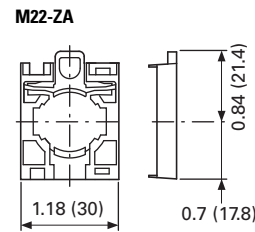
Contact Block Mounting Adapter



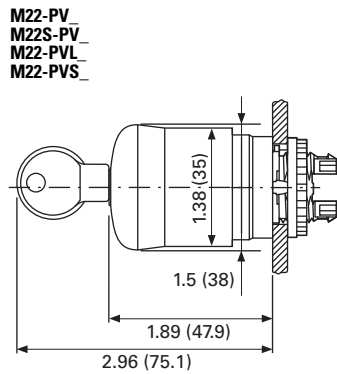
Mushroom Head Pushbutton



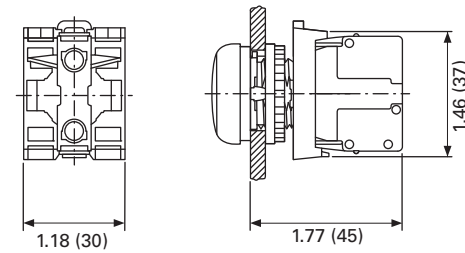
Front Mounted Centering Adapter



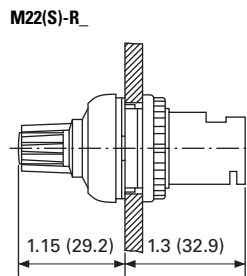
Emergency-Stop Operators



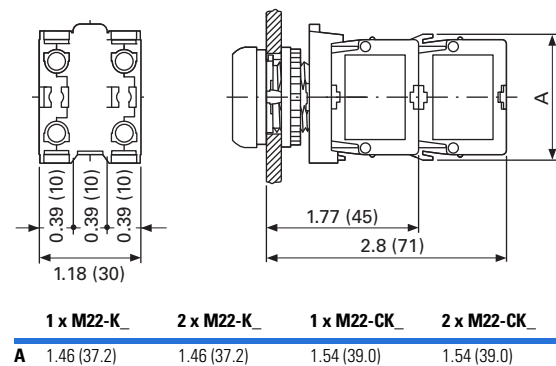
Front Mounted Indicating Light



Potentiometer

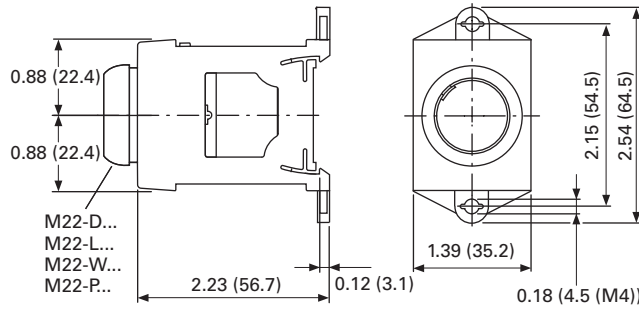


Pushbutton, Complete Devices

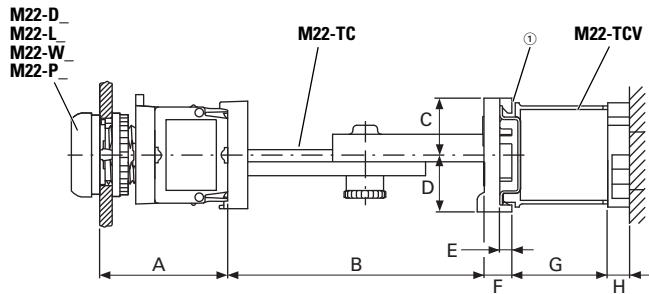


Approximate Dimensions in Inches (mm)

DIN-Rail Mounting Adapter



Pushbuttons and Indicating Lights with M22-TC Telescopic Clip and M22-TVC Extension

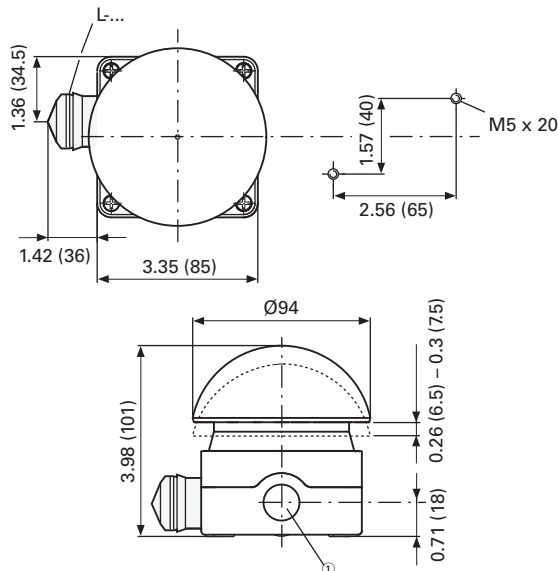


A	B	C	D	E	F	G	H
1.77 (45)	2.36–3.94 (60–100)	0.79 (20)	0.79 (20)	0.18 (4.5)	0.39 (10)	154 (39)	0.39 (10)

① Top-hat rail to IEC/EN 60715.

Palm Switches

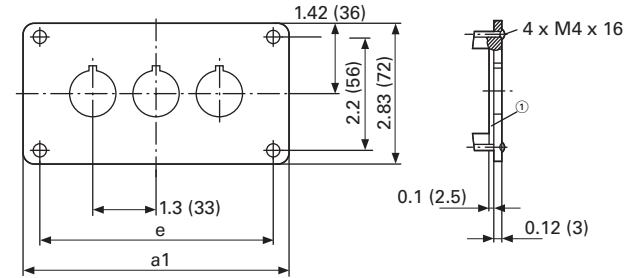
FAK_



① 3 x M20 lateral, 1 x M16 in bottom.

Front Mounted Mounting Plate

M22-E_

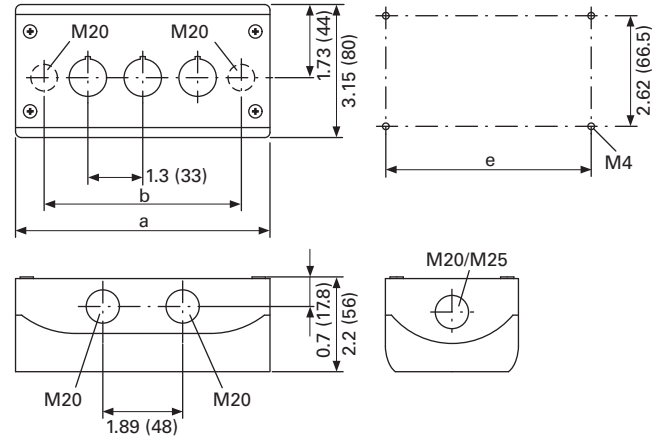


Catalog Number	a1	e
M22-E(Y) ①	2.83 (72)	2.21 (56)
M22-E2	4.13 (105)	3.50 (89)
M22-E3	5.43 (138)	4.80 (122)

Catalog Number	a1	e
M22-E4	6.73 (171)	6.10 (155)
M22-E5	8.03 (204)	7.40 (188)
M22-E6	9.33 (237)	8.70 (221)

Base Mounted Surface Mounting Enclosure

M22-I_



Catalog Number	Mounting Locations	a	b	e	Cable Entries
M22-I(Y)1	1	2.83 (72.0)	1.68 (42.6)	2.30 (58.5)	2 x M16 3 x M20 2 x M25
M22-I2	2	4.72 (120.0)	3.37 (85.6)	4.19 (106.5)	2 x M20 3 x M20 2 x M25
M22-I3	3	6.02 (153.0)	4.67 (118.6)	5.49 (139.5)	2 x M20 2 x M25 4 x M20
M22-I4	4	7.32 (186.0)	5.97 (151.6)	6.79 (172.5)	2 x M20 2 x M25 4 x M20
M22-I6	6	9.92 (252.0)	8.57 (217.6)	9.39 (238.5)	2 x M20 2 x M25 4 x M20

1.4

Pushbuttons and Indicating Lights

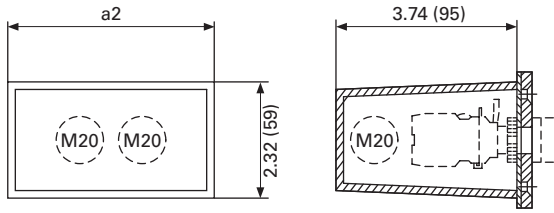
22.5 mm RMQ-Titan Modular Pushbuttons—M22

1

Approximate Dimensions in Inches (mm)

Covers

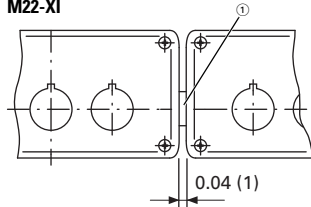
M22-H_



Catalog Number	a2	Cable Entry	Style
M22-H1	1.65 (42)	3 x M20	One-piece
M22-H2	2.95 (75)	4 x M20	
M22-H3	4.25 (108)	4 x M20	
M22-H4	5.55 (141)	4 x M20	Split
M22-H5	6.85 (174)	5 x M20	
M22-HE6	8.15 (207)	6 x M20	

Connecting Screw

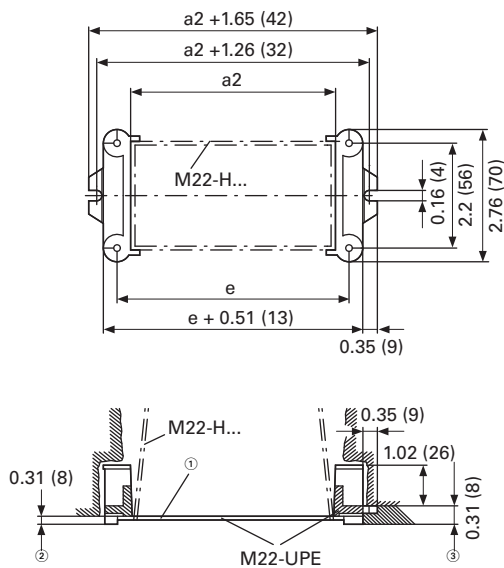
M22-XI



① Gasket.

Shroud with Plaster Keys

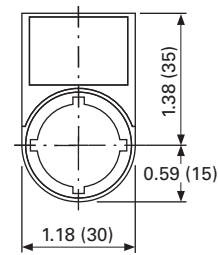
M22-UPE



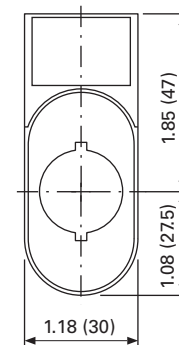
- ② Box for closing off when plastering.
- ③ Plaster thickness less than 8 mm.
- ④ Plaster thickness more than 8 mm.

Legend Plates

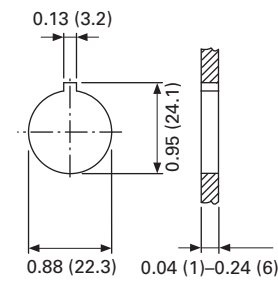
M22S-ST_



M22S-STDD-X

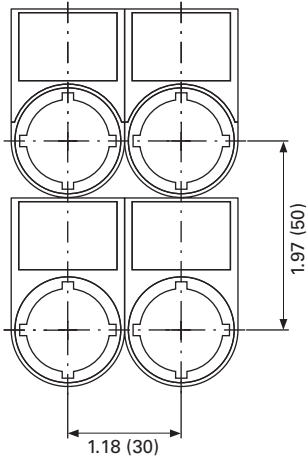


Mounting Hole with Lug Slot

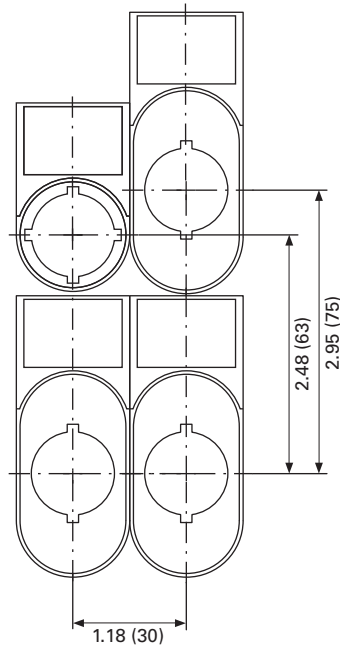


Approximate Dimensions in Inches (mm)

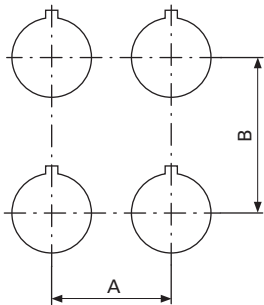
Grid Dimension to IEC/EN 60947



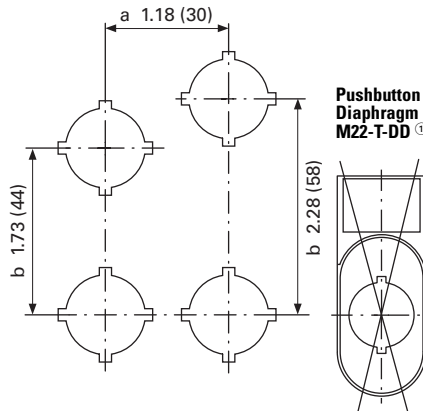
Grid Dimension for M22-DD₂



Grid Dimension for Various Combinations

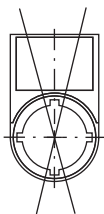


Grid Dimension for M22-DDL₂



Pushbutton Diaphragm

Pushbutton diaphragm cannot be combined with label mount.

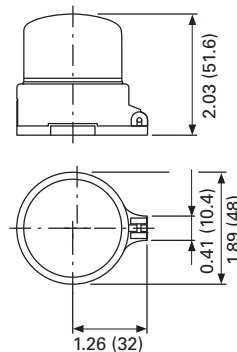


Catalog Number	A ≥	B ≥
M22(S)-₂ (IEC/EN 60947)	1.18 (30.0)	1.97 (50.0)
RMQ-Titan min.	1.18 (30.0)	1.58 (40.0)
M22-D₂ + M22-T-D	1.30 (33.0)	1.58 (40.0)
M22-D(R)P₂	1.50 (38.0)	1.58 (40.0)
M22-PV₂	1.50 (38.0)	1.58 (40.0)
M22-PV(L) + M22-PL-PV	1.89 (48.0)	2.20 (56.0)
M22-PV(L)(S₂) + M22-D₂	1.30 (33.0)	1.58 (40.0)
M22-DDL₂	1.18 (30.0)	2.17 (55.0)
M22-DDL₂ + M22-T-DD	1.30 (33.0)	2.28 (58.0)
M22-ST₂	1.18 (30.0)	1.97 (50.0)
M22-STDD₂	1.18 (30.0)	2.95 (75.0)
M22-CK₂	1.18 (30.0)	1.77 (45.0)
M22-CLED₂	1.18 (30.0)	1.77 (45.0)
M22-XAK₂	3.54 (90.0)	3.54 (90.0)
M22-XZK₂	1.30 (33.0)	2.04 (52.0)
M22-XBK₂	2.36 (60.0)	2.36 (60.0)
M22-XYK₂	1.97 (50.0)	1.97 (50.0)
M22-D4	2.17 (55.0)	2.17 (55.0)
M22-WR...4	1.97 (50.0)	1.97 (50.0)
M22-W...J4	1.97 (50.0)	1.97 (50.0)

① Pushbutton diaphragm cannot be combined with label mount.

Emergency Stop Sealing Cover

M22-PL-PV



1.4

Pushbuttons and Indicating Lights

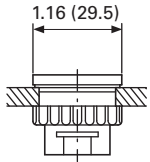
22.5 mm RMQ-Titan Modular Pushbuttons—M22

1

Approximate Dimensions in Inches (mm)

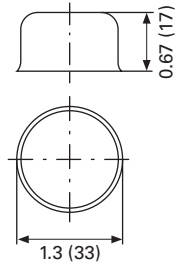
Blanking Plugs

M22...B-₋

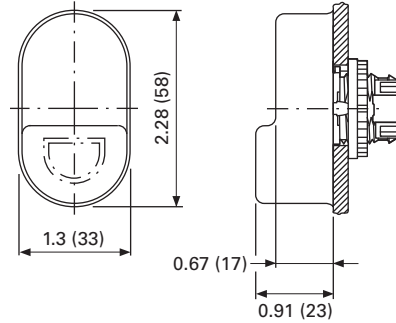


Pushbutton Diaphragm

M22-T-D

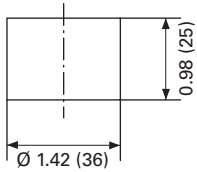


M22-T-D

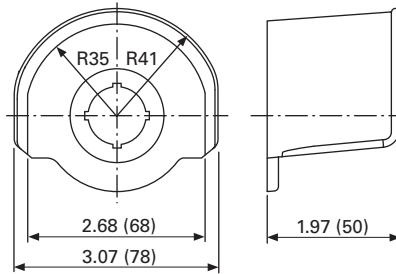


Guard Ring

M22-XGWK

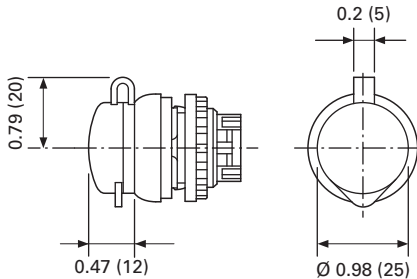


M22-XGPV



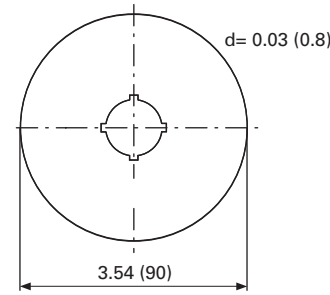
Key Cover

M22-XWS

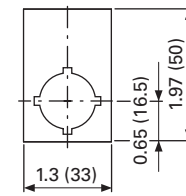


Emergency Stop Legend Plate

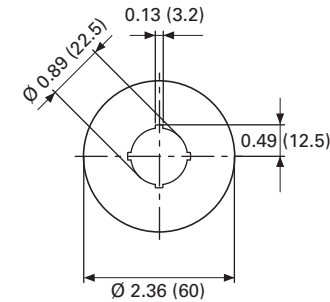
M22-XAK-₋



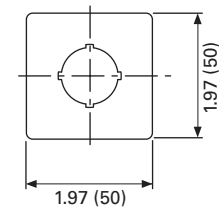
M22-X(Y)ZK-₋



M22-XBK-₋

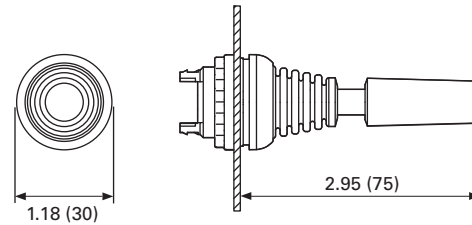


M22-XYK-₋



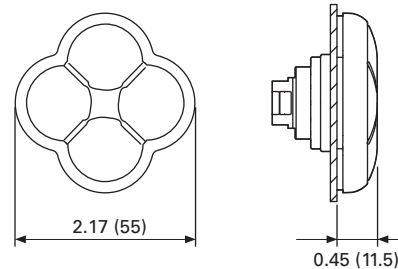
Joystick

M22...W...J-₋



Four-Way Pushbutton

M22...-D...4-₋



Symbols Library

Instructions for Ordering Laser Inscriptions

1. Identify part number to be inscribed.
2. Pick symbol from library and identify suffix code associated with the symbol.
3. Order part number already listed in the catalog with -ETCH suffix.
4. When placing an order by fax or Vistaline on the Web, reference order item number and indicate appropriate suffix code.

Example

To order a green flush button plate with the inscription AUTO HAND:

Order Catalog Number: M22-XD-G-ETCH (see **Page V7-T1-49**).

AUTO HAND inscription is found on **Page V7-T1-127** in the Symbols Library, suffix code is X91.

In the order notes, reference item number and suffix X91.

Letter height 3 mm: max. three lines, max. 12 characters per line.

Letter height 5 mm: max. two lines, max. eight characters per line.

Note: For symbols or text not found in the Symbols Library, please contact the Eaton Technical Resource Center at 1-877-ETN CARE (386-2273) or TRC@eaton.com.

Letter Height Specifications: ≤ five characters; letter height = 0.197 in (5 mm). > five characters; letter height = 0.118 in (3 mm).

Text—English

Inscription	Catalog Number Suffix
STOP	GB0
START	GB1
CLOSE	GB2
UP	GB3
DOWN	GB4
OFF	GB5
ON	GB6
RUN	GB7
FAULT	GB8
TEST	GB9
OFF ON	GB10
MAN. AUTO	GB11
MAN. 0 AUTO	GB12
RESET	GB14
FORWARD	GB15
REVERSE	GB16
RAISE	GB17

Text—German

Inscription	Catalog Number Suffix
LOWER	GB18
LEFT	GB19
RIGHT	GB20
BRAKE	GB21
HIGH	GB22
LOW	GB23
FAST	GB24
SLOW	GB25
FASTER	GB26
SLOWER	GB27
OPEN	GB32
PROG	GB62
CALL	GB63
OCCUPIED	GB64
BYPASS 0 1	GB65
BYPASS UP	GB66
EMERGENCY-STOP	GB99

Inscription	Catalog Number Suffix
Halt	D0
Start	D1
Zu	D2
Auf	D3
Ab	D4
Aus	D5
En	D6
Betrieb	D7
Störung	D8
Prüfung	D9
Aus Ein	D10
HAND AUTO	D11
HAND 0 AUTO	D12
Antrieb	D13
Entsperren	D14
Vorwärts	D15
Rückwärts	D16
Heben	D17
Senken	D18
Links	D19
Rechts	D20
Bremsen	D21
Hoch	D22
Niedrig	D23
Schnell	D24

Inscription	Catalog Number Suffix
Langsam	D25
HAND	D28
AUTO	D29
Einrichten	D30
Tippen	D31
Öffnen	D32
Steuerspannung	D33
Start Automatik	D34
Lampentest	D35
Phasenkontrolle	D36
Alarm	D37
Alarm - Reset	D38
Sammelstörung	D39
Quittieren	D40
Quittierung	D41
Steuerung Ein	D42
Steuerung Aus	D43
Störung quittieren	D44
FÜHLER int. ext.	D72
HEIZUNG 1 2	D73
AUS- BLASEN	D74
SOLLWERT int. ext.	D75
Not-Aus	D99
Not - Aus quittieren	D100

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.



Letter Height Specifications: ≤ five characters; letter height = 0.197 in (5 mm). > five characters; letter height = 0.118 in (3 mm).








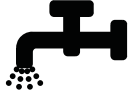


















Text—French

Inscription	Catalog Number Suffix
ARRÊT	F0
MARCHE	F1
FERMÉ	F2
MONTÉE	F3
DESCENTE	F4
ARRÊT	F5
MARCHE	F6
EN SERVICE	F7
PANNE	F8
ESSAI	F9
ARRÊT MARCHÉ	F10
MAN. AUTO	F11
MAN. 0 AUTO	F12
REARM.	F14
AVANT	F15
ARRIÈRE	F16
MONTER	F17
DESCENDRE	F18
GAUCHE	F19
DROITE	F20
DEFAULT	F67
SOUS TENSION	F68
ARRÊT D'URGENCE	F99

Text—Swedish

Inscription	Catalog Number Suffix
STOPP	S0
START	S1
STÄNG	S2
UPP	S3
NED	S4
FRÅN	S5
TILL	S6
KÖR	S7
FEL	S8
PROV	S9
FRAN TILL	S10
MAN. AUTO	S11
MAN. 0 AUTO	S12
ÅTERSTÄLLNING	S14
FRAM	S15
BACK	S16
ÖKA	S17
MINSKA	S18
VÄNSTER	S19
HÖGER	S20
BROMS	S21
HÖG	S22
LÅG	S23
ÖPPNA	S32
IN	S45
UT	S46
NÖDSTOPP	S99

Symbols

Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix
	X0		X13
	X1		X14
	X2		X15
	X3		X16
	X4		X17
	X5		X18
	X6		X19
	X7		X20
	X8		X21
	X9		X22
	X10		X23
	X11		X24
	X12		X25

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.



1.4

Pushbuttons and Indicating Lights

22.5 mm RMQ-Titan Modular Pushbuttons—M22

1

Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix
	X26		X40	3	X54		X68
	X27		X41	4	X55		X69
	X28		X42	5	X56		X70
	X29		X43	6	X57		X71
	X30		X44	7	X58		X72
	X31		X45	8	X59		X73
	X32		X46	9	X60		X74
	X33		X47		X61		X75
	X34		X48		X62		X76
	X35		X49		X63		X77
	X36		X50		X64		X78
	X37		X51		X65		X79
	X38	0	X52		X66		X80
	X39	1	X53		X67		X81
		2	X53				

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.



Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix
	X82		X104		X118		X132
	X83		X105		X119		X133
	X88		X106		X120		X134
	X89		X107		X121		X135
	X90		X108		X122		X136
	X91		X109		X123		X137
	X92		X110		X124		X138
	X93		X111		X125		X139
	X94		X112		X126		X140
	X95		X113		X127		X141
	X100		X114		X128		X142
	X101		X115		X129		X143
	X102		X116		X130		X144
	X103		X117		X131		X145

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.




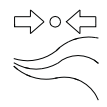



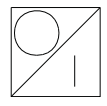
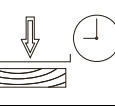

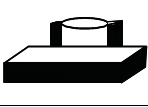
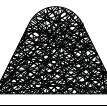
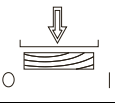

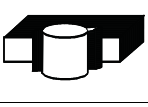
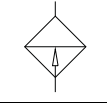


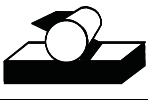
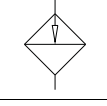
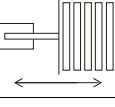

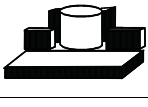
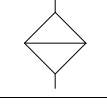
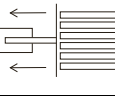

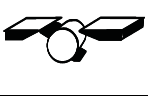
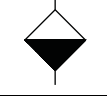
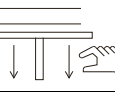

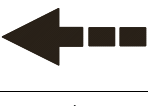
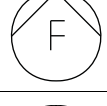


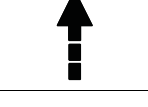
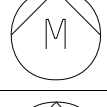


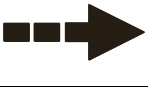
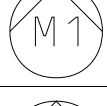
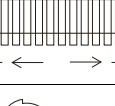
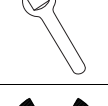
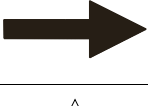
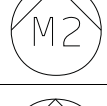
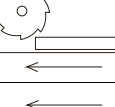
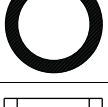
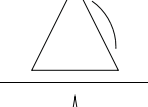
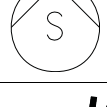
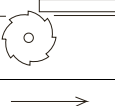
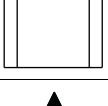
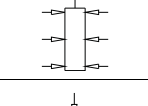
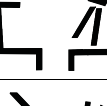
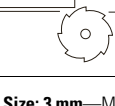
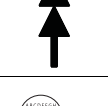
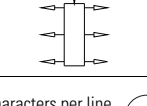



1.4

Pushbuttons and Indicating Lights

22.5 mm RMQ-Titan Modular Pushbuttons—M22

1

Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix
	X146		X160		X174		X188
	X147		X161		X175		X189
	X148		X162		X176		X190
	X149		X163		X177		X191
	X150		X164		X178		X192
	X151		X165		X179		X193
	X152		X166		X180		X194
	X153		X167		X181		X195
	X154		X168		X182		X196
	X155		X169		X183		X197
	X156		X170		X184		X198
	X157		X171		X185		X199
	X158		X172		X186		X200
	X159		X173		X187		X201

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.



Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix
	X202		X216		X230		X244
	X203		X217		X231		X245
L 1	X204		X218		X232		X246
L 2	X205		X219		X233		X247
L 3	X206		X220		X234		X248
↑ A	X207		X221		X235		X249
↓ A	X208		X222		X236	OPEN / CLOSE PROTECT.DOOR	X250
↓ B	X209		X223		X237		X251
↑ B	X210		X224		X238	ROTATE AXIS	X252
I	X211		X225		X239	CLAMP / UNCLAMP CLAMP DEVICE	X253
II	X212		X226		X240		X254
III	X213		X227		X241		X255
	X214		X228		X242		X256
B	X215		X229		X243		X257

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.





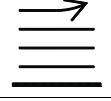


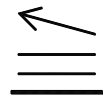

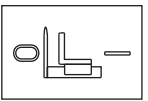















1.4

Pushbuttons and Indicating Lights

22.5 mm RMQ-Titan Modular Pushbuttons—M22

1

Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix	Inscription	Catalog Number Suffix
	X258		X265	CHEM II	X272	 T1 - Tn CHANGE TOOL ARM	X279
	X259		X266	CHEM III	X273		X280
	X260		X267		X274	OUT OF SERVICE	X281
	X261		X268		X275		X282
	X262		X269	CONTI → CUT	X276		X283
	X263		X270		X277		X284
	X264	CHEM I	X271		X278		X285
				TOOL UNLOCKING			

Text Size: 3 mm—Max. eight characters in first line; 10 characters in second line; eight characters in third line.



Text Size: 5 mm—Max. five characters per line.



22.5 mm RMQ Compact Pushbuttons—C22



Contents

Description	Page
22.5 mm RMQ Compact Pushbuttons—C22	
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Indicating Lights	V7-T1-143
Emergency Stops	V7-T1-146
Selector Switches	V7-T1-148
Technical Data and Specifications	V7-T1-152
Dimensions	V7-T1-154

Product Overview

Product Description

Eaton's C22 compact pushbutton line offers an industry leading array of functional, attractive, and ergonomically designed "all-in-one" illuminated and non-illuminated pushbuttons, selector switches, emergency stops and indicating lights. The complete illuminated line is only offered in LED light units to ensure high-quality brightness and up to 100,000 hours of LED illumination. C22 operators are available with either a silver or black bezel and share the exact same front of the panel look and feel as Eaton's M22 line. The C22's compact, "all-in-one" design with the contact block(s) and operators integral provides the user with a simple solution.

The 2017 product extension C22 with pigtail has more than doubled the portfolio. The C22 with pigtail now allows customers the ability to directly mount the product without the need for pushbutton enclosures. With three different connection methods and multiple lengths, the C22 with pigtail can be used for a wide range of applications.

Wide Product Breadth

- In addition to the standard compact offering of indicating lights and pushbuttons, Eaton's C22 offers keyed and non-keyed operators and emergency stops
- Styles with standard laser etch markings with the ability to use custom M22 laser etched buttons in conjunction with C22 buttonless operators
- Pigtail lengths vary from 0.2 to 3.5 m and allow two connection options—M12 and flying lead

LED Indicators

- 100,000 hours of life in high-vibration environments
- Lenses specifically designed for LED illumination

Rugged Design

- Pushbuttons (momentary) rated for 5 million mechanical operations and selector switches (non-keyed) rated for 1 million mechanical operations
- All components have IP65 rating, and some carry IP67 and IP69K for wash-down environment, which also means oil tight
- C22 with pigtail has an IP65 rear rating, eliminating the need for an enclosure in dust and water jet applications

Standards and Certifications

All operators are IEC/EN 60947 VDE 0660, UL Listed, and CSA Certified.

All operators carry an IP65, IP66, IP67 or IP69K rating.

All products carry ratings of NEMA 1, 3R, 4X, 12 and 13



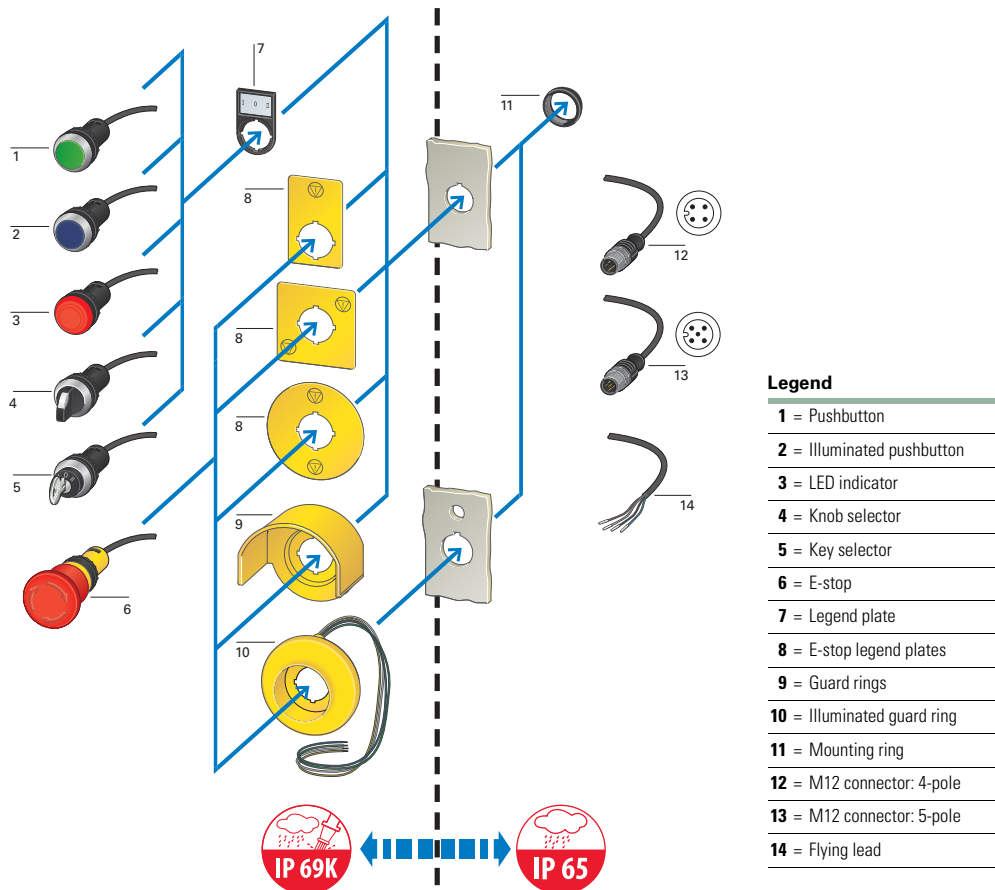
1

Features

- Field convertible maintained pushbuttons from maintained to momentary
- LED offering only for all illuminated operators
- Heavy-duty construction with a minimum of IP65 and UL NEMA® Type 4X/13 on front of panel operators. Many operators even carry IP67 and IP69K, for the toughest applications
- Silver or black colored nylon bezels
- Notched hole mounting with anti-rotation tab and central nut mounting on each operator
- Pushbuttons (momentary) rated for 5 million mechanical operations and selector switches (non-keyed) rated for 1 million mechanical operations
- Unique compact offerings, including keyed and non-keyed operators and emergency stops

Benefits

- Compact, “all-in-one” operator and contact block design simplifies product selection, inventory, and installation
- Field convertibility of pushbuttons and selector switches helps distributors and customers reduce inventory and increase functionality
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Plastic construction is corrosion resistant
- Eliminate enclosure, on machine installations
- Operators are designed for rugged environments, ideal for wash-down applications (reference each operator’s IP ratings for ingress protection definition)
- Anti-rotation tab saves installation time and prevents operator rotation
- High mechanical and electrical life allows for use in tough and challenging applications
- Laser inscription capabilities allow for high quality, wear-resistant markings
- By having a compact design emergency stop, the C22 design eliminates the need for self-monitoring contact blocks
- M12 connections allow connection directly into communications systems such as SmartWire-DT or AS6



Legend

- | | |
|----|--------------------------|
| 1 | = Pushbutton |
| 2 | = Illuminated pushbutton |
| 3 | = LED indicator |
| 4 | = Knob selector |
| 5 | = Key selector |
| 6 | = E-stop |
| 7 | = Legend plate |
| 8 | = E-stop legend plates |
| 9 | = Guard rings |
| 10 | = Illuminated guard ring |
| 11 | = Mounting ring |
| 12 | = M12 connector: 4-pole |
| 13 | = M12 connector: 5-pole |
| 14 | = Flying lead |

Product Selection Guide

Pushbuttons



Description	Non-illuminated, flush		Non-illuminated, flush, pigtail (M12/flying lead)		Illuminated, flush		Illuminated, flush, pigtail (M12/flying lead)	
Operator	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained	Momentary	Maintained
Product Selection	Page V7-T1-135	Page V7-T1-137	Page V7-T1-136	Page V7-T1-138	Page V7-T1-139	Page V7-T1-141	Page V7-T1-140	Page V7-T1-142

Indicating Lights



Description	Indicating lights	Indicating lights with pigtail (M12/flying lead)
Product Selection	Page V7-T1-144	Page V7-T1-145

Emergency Stops



Description	Twist release	Twist release with or without indicator and flying lead/M12	Push-Pull with Pigtail (flying lead/M12)
Product Selection	Page V7-T1-147	Page V7-T1-147	Page V7-T1-147

Selector Switches



Description	Non-illuminated, knob type	Non-illuminated, knob type, with pigtail
Product Selection	Page V7-T1-149	Page V7-T1-150



Contents

<i>Description</i>	<i>Page</i>
Pushbuttons—Non-Illuminated and Illuminated	
Non-Illuminated Pushbuttons, Flush, Momentary	V7-T1-135
Non-Illuminated Pushbuttons, Flush, Momentary, with Pigtail	V7-T1-136
Non-Illuminated Pushbuttons, Flush, Maintained	V7-T1-137
Non-Illuminated Pushbuttons, Flush, Maintained, with Pigtail	V7-T1-138
Illuminated, Flush, Momentary	V7-T1-139
Illuminated Pushbuttons, Flush, Momentary, with Pigtail	V7-T1-140
Illuminated Pushbuttons, Flush, Maintained	V7-T1-141
Illuminated Pushbuttons, Flush, Maintained, with Pigtail	V7-T1-142
Indicating Lights	V7-T1-143
Emergency Stops	V7-T1-146
Selector Switches	V7-T1-148
Technical Data and Specifications	V7-T1-152
Dimensions	V7-T1-154

Pushbuttons—Non-Illuminated and Illuminated

Product Description

Eaton's C22 Compact Pushbuttons are a complete line of monoblock type pushbuttons with the contact blocks, mounting adapter, and operator all-in-one. The C22 pushbuttons offer the same look and feel as their modular counterpart, the M22. They also carry many of the same rugged ratings and options, such as field convertibility and LED technology. They also feature IP65 rear ratings when purchased with pigtail, M12/flying lead.

Note: For additional accessories, please see **Pages V7-T1-105 to V7-T1-111**, 22.5 mm Modular Pushbuttons—M22 Accessories.

Features

- Field convertible maintained pushbuttons from maintained to momentary
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Pushbuttons (momentary) rated for 5 million mechanical operations
- Pigtail option allows direct machine mounting

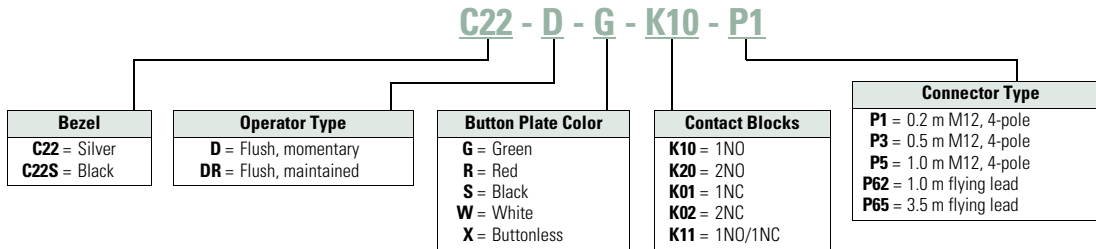
Protection Type

- IP67/IP69K
- NEMA 4X, 13
- IP65 rear (pigtail devices)

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Pushbuttons



Product Selection

Non-Illuminated Pushbuttons, Flush, Momentary

C22(S)-D-__



Non-Illuminated Pushbuttons, Flush, Momentary

Button Color	Button Etching	Contact Block Configuration	Black Bezel Catalog Number
Green	—	1NO	C22S-D-G-K10
	—	2NO	C22S-D-G-K20
	—	1NO/1NC	C22S-D-G-K11
Red	—	1NC	C22S-D-R-K01
	—	2NC	C22S-D-R-K02
	—	1NO/1NC	C22S-D-R-K11
Black	—	1NC	C22S-D-S-K01
	—	2NC	C22S-D-S-K02
	—	1NO/1NC	C22S-D-S-K11
White	—	1NO	C22S-D-W-K10
	—	2NO	C22S-D-W-K20
	—	1NO/1NC	C22S-D-W-K11
Buttonless	—	1NO	C22S-D-X-K10
	—	2NO	C22S-D-X-K20
	—	1NC	C22S-D-X-K01
	—	2NC	C22S-D-X-K02
	—	1NO/1NC	C22S-D-X-K11

1 Non-Illuminated Pushbuttons, Flush, Momentary, with Pigtail

C22-D- 

Non-Illuminated Pushbuttons, Flush, Momentary, with Pigtail

Button Color	Contacts	Connector Length	Connector Type	Silver Bezel Catalog Number
Green	1NO	0.2	M12	C22-D-G-K10-P1
	1NO	1	M12	C22-D-G-K10-P5
	1NO	1	Flying lead	C22-D-G-K10-P62
	1NO	3.5	Flying lead	C22-D-G-K10-P65
Red	1NC	0.2	M12	C22-D-R-K01-P1
	1NC	0.5	M12	C22-D-R-K01-P3
	1NC	1	M12	C22-D-R-K01-P5
	1NC	1	Flying lead	C22-D-R-K01-P62
	1NC	3.5	Flying lead	C22-D-R-K01-P65
Black	1NC	0.2	M12	C22-D-S-K01-P1
	1NC	0.5	M12	C22-D-S-K01-P3
	1NC	1	M12	C22-D-S-K01-P5
	1NC	1	Flying lead	C22-D-S-K01-P62
	1NC	3.5	Flying lead	C22-D-S-K01-P65
White	1NO	0.2	M12	C22-D-W-K10-P1
	1NO	0.5	M12	C22-D-W-K10-P3
	1NO	1	M12	C22-D-W-K10-P5
	1NO	1	Flying lead	C22-D-W-K10-P62
	1NO	3.5	Flying lead	C22-D-W-K10-P65
Buttonless	1NO	0.2	M12	C22-D-X-K10-P1
	1NO	0.5	M12	C22-D-X-K10-P3
	1NO	1	M12	C22-D-X-K10-P5
	1NO	1	Flying lead	C22-D-X-K10-P62
	1NO	3.5	Flying lead	C22-D-X-K10-P65
	2NO	1	Flying lead	C22-D-X-K20-P62
	2NO	3.5	Flying lead	C22-D-X-K20-P65
	1NC/1NO	1	Flying lead	C22-D-X-K11-P62
	1NC/1NO	3.5	Flying lead	C22-D-X-K11-P65
	1NC	0.2	M12	C22-D-X-K01-P1
	1NC	0.5	M12	C22-D-X-K01-P3
	1NC	1	M12	C22-D-X-K01-P5
	1NC	1	Flying lead	C22-D-X-K01-P62
	1NC	3.5	Flying lead	C22-D-X-K01-P65
	2NC	1	Flying lead	C22-D-X-K02-P62
	2NC	3.5	Flying lead	C22-D-X-K02-P65

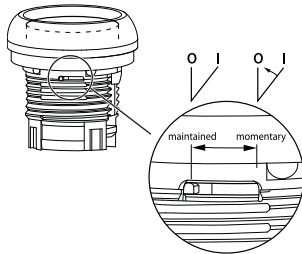
Non-Illuminated Pushbuttons, Flush, Maintained

C22(S)-DR-



Non-Illuminated Pushbuttons, Flush, Maintained

Button Color	Button Etching	Contact Block Configuration	Black Bezel Catalog Number
Green	—	1NO	C22S-DR-G-K10
	—	2NO	C22S-DR-G-K20
	—	1NO/1NC	C22S-DR-G-K11
Red	—	1NC	C22S-DR-R-K01
	—	2NC	C22S-DR-R-K02
	—	1NO/1NC	C22S-DR-R-K11
Black	—	1NC	C22S-DR-S-K01
	—	2NC	C22S-DR-S-K02
	—	1NO/1NC	C22S-DR-S-K11
White	—	1NO	C22S-DR-W-K10
	—	2NO	C22S-DR-W-K20
	—	1NO/1NC	C22S-DR-W-K11
Buttonless	—	1NO	C22S-DR-X-K10
	—	2NO	C22S-DR-X-K20
	—	1NC	C22S-DR-X-K01
	—	2NC	C22S-DR-X-K02
	—	1NO/1NC	C22S-DR-X-K11



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

1 Non-Illuminated Pushbuttons, Flush, Maintained, with Pigtail

C22-DR_



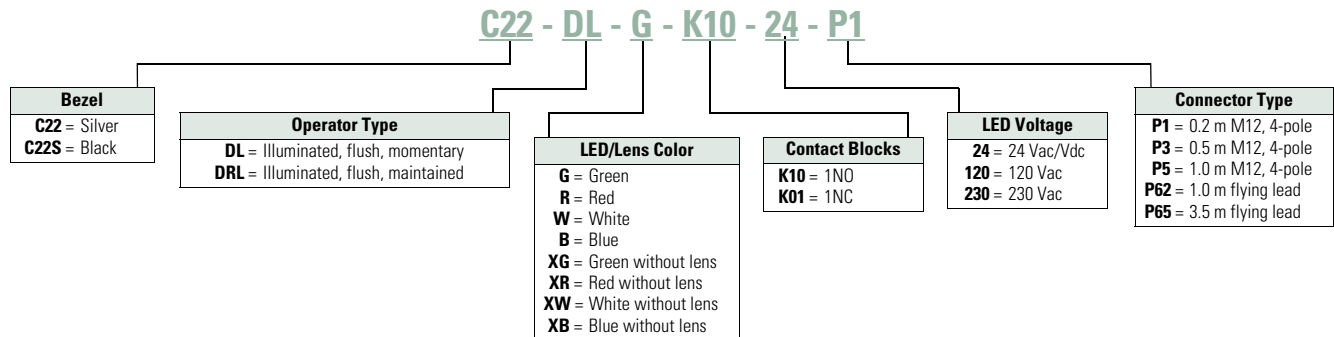
Non-Illuminated Pushbuttons, Flush, Maintained, with Pigtail

Button Color	Contacts	Connector Length	Connector Type	Silver Bezel Catalog Number
Green	1NO	0.2	M12	C22-DR-G-K10-P1
	1NO	0.5	M12	C22-DR-G-K10-P3
	1NO	1	M12	C22-DR-G-K10-P5
	1NO	1	Flying lead	C22-DR-G-K10-P62
	1NO	3.5	Flying lead	C22-DR-G-K10-P65
Red	1NC	0.2	M12	C22-DR-R-K01-P1
	1NC	0.5	M12	C22-DR-R-K01-P3
	1NC	1	M12	C22-DR-R-K01-P5
	1NC	1	Flying lead	C22-DR-R-K01-P62
	1NC	3.5	Flying lead	C22-DR-R-K01-P65
Black	1NC	0.2	M12	C22-DR-S-K01-P1
	1NC	0.5	M12	C22-DR-S-K01-P3
	1NC	1	M12	C22-DR-S-K01-P5
	1NC	1	Flying lead	C22-DR-S-K01-P62
	1NC	3.5	Flying lead	C22-DR-S-K01-P65
White	1NO	0.2	M12	C22-DR-W-K10-P1
	1NO	0.5	M12	C22-DR-W-K10-P3
	1NO	1	M12	C22-DR-W-K10-P5
	1NO	1	Flying lead	C22-DR-W-K10-P62
	1NO	3.5	Flying lead	C22-DR-W-K10-P65
Buttonless	1NO	0.2	M12	C22-DR-X-K10-P1
	1NO	0.5	M12	C22-DR-X-K10-P3
	1NO	1	M12	C22-DR-X-K10-P5
	1NO	1	Flying lead	C22-DR-X-K10-P62
	1NO	3.5	Flying lead	C22-DR-X-K10-P65
	2NO	1	Flying lead	C22-DR-X-K20-P62
	2NO	3.5	Flying lead	C22-DR-X-K20-P65
	1NC/1NO	1	Flying lead	C22-DR-X-K11-P62
	1NC/1NO	3.5	Flying lead	C22-DR-X-K11-P65
	1NC	0.2	M12	C22-DR-X-K01-P1
	1NC	0.5	M12	C22-DR-X-K01-P3
	1NC	1	M12	C22-DR-X-K01-P5
	1NC	1	Flying lead	C22-DR-X-K01-P62
	1NC	3.5	Flying lead	C22-DR-X-K01-P65
	2NC	1	Flying lead	C22-DR-X-K02-P62
2NC	3.5	Flying lead	C22-DR-X-K02-P65	

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Illuminated Pushbuttons



Product Selection

Illuminated, Flush, Momentary

C22(S)-DL- Illuminated Pushbuttons, Flush, Momentary



LED Color	Button Color	Voltage	Button Etching	Contact Block Configuration	Black Bezel Catalog Number	
Green	Green	24 Vac/Vdc	—	1NO	C22S-DL-G-K10-24	
		120 Vac	—	1NO	C22S-DL-G-K10-120	
		230 Vac	—	1NO	C22S-DL-G-K10-230	
		24 Vac/Vdc	X1	1NO	C22S-DL-G-X1-K10-24	
		120 Vac	X1	1NO	C22S-DL-G-X1-K10-120	
		230 Vac	X1	1NO	C22S-DL-G-X1-K10-230	
	Buttonless	24 Vac/Vdc	—	1NO	C22S-DL-XG-K10-24	
		120 Vac	—	1NO	C22S-DL-XG-K10-120	
		230 Vac	—	1NO	C22S-DL-XG-K10-230	
	Red	Red	24 Vac/Vdc	—	1NC	C22S-DL-R-K01-24
			120 Vac	—	1NC	C22S-DL-R-K01-120
			230 Vac	—	1NC	C22S-DL-R-K01-230
24 Vac/Vdc			X0	1NC	C22S-DL-R-X0-K01-24	
120 Vac			X0	1NC	C22S-DL-R-X0-K01-120	
230 Vac			X0	1NC	C22S-DL-R-X0-K01-230	
Buttonless		24 Vac/Vdc	—	1NC	C22S-DL-XR-K01-24	
		120 Vac	—	1NC	C22S-DL-XR-K01-120	
		230 Vac	—	1NC	C22S-DL-XR-K01-230	
White		White	24 Vac/Vdc	—	1NO	C22S-DL-W-K10-24
			120 Vac	—	1NO	C22S-DL-W-K10-120
			230 Vac	—	1NO	C22S-DL-W-K10-230
	24 Vac/Vdc		X1	1NO	C22S-DL-W-X1-K10-24	
	120 Vac		X1	1NO	C22S-DL-W-X1-K10-120	
	230 Vac		X1	1NO	C22S-DL-W-X1-K10-230	
	Buttonless	24 Vac/Vdc	—	1NO	C22S-DL-XW-K10-24	
		120 Vac	—	1NO	C22S-DL-XW-K10-120	
		230 Vac	—	1NO	C22S-DL-XW-K10-230	
	Blue	Blue	24 Vac/Vdc	—	1NO	C22S-DL-B-K10-24
			120 Vac	—	1NO	C22S-DL-B-K10-120
			230 Vac	—	1NO	C22S-DL-B-K10-230
24 Vac/Vdc			X1	1NO	C22S-DL-B-X1-K10-24	
120 Vac			X1	1NO	C22S-DL-B-X1-K10-120	
230 Vac			X1	1NO	C22S-DL-B-X1-K10-230	
Buttonless		24 Vac/Vdc	—	1NO	C22S-DL-XB-K10-24	
		120 Vac	—	1NO	C22S-DL-XB-K10-120	
		230 Vac	—	1NO	C22S-DL-XB-K10-230	

1 Illuminated Pushbuttons, Flush, Momentary, with Pigtail

C22-DL-__



Illuminated Pushbuttons, Flush, Momentary, with Pigtail

Button Color	Contacts	Connector Length	Connector Type	Silver Bezel Catalog Number
Green	1NO	0.2	M12	C22-DL-G-K10-24-P1
	1NO	0.5	M12	C22-DL-G-K10-24-P3
	1NO	1	M12	C22-DL-G-K10-24-P5
	1NO	1	Flying lead	C22-DL-G-K10-24-P62
	1NO	3.5	Flying lead	C22-DL-G-K10-24-P65
Red	1NC	0.2	M12	C22-DL-R-K01-24-P1
	1NC	0.5	M12	C22-DL-R-K01-24-P3
	1NC	1	M12	C22-DL-R-K01-24-P5
	1NC	1	Flying lead	C22-DL-R-K01-24-P62
	1NC	3.5	Flying lead	C22-DL-R-K01-24-P65
Blue	1NO	0.2	M12	C22-DL-B-K10-24-P1
	1NO	0.5	M12	C22-DL-B-K10-24-P3
	1NO	1	M12	C22-DL-B-K10-24-P5
	1NO	1	Flying lead	C22-DL-B-K10-24-P62
	1NO	3.5	Flying lead	C22-DL-B-K10-24-P65
White	1NO	0.2	M12	C22-DL-W-K10-24-P1
	1NO	0.5	M12	C22-DL-W-K10-24-P3
	1NO	1	M12	C22-DL-W-K10-24-P5
	1NO	1	Flying lead	C22-DL-W-K10-24-P62
	1NO	3.5	Flying lead	C22-DL-W-K10-24-P65

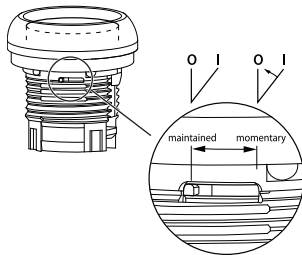
Illuminated Pushbuttons, Flush, Maintained

C22(S)-DRL_



Illuminated Pushbuttons, Flush, Maintained

LED Color	Button Color	Voltage	Contact Block Configuration	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	1NO	C22S-DRL-G-K10-24
		120 Vac	1NO	C22S-DRL-G-K10-120
		230 Vac	1NO	C22S-DRL-G-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22S-DRL-XG-K10-24
		120 Vac	1NO	C22S-DRL-XG-K10-120
		230 Vac	1NO	C22S-DRL-XG-K10-230
Red	Red	24 Vac/Vdc	1NC	C22S-DRL-R-K01-24
		120 Vac	1NC	C22S-DRL-R-K01-120
		230 Vac	1NC	C22S-DRL-R-K01-230
	Buttonless	24 Vac/Vdc	1NC	C22S-DRL-XR-K01-24
		120 Vac	1NC	C22S-DRL-XR-K01-120
		230 Vac	1NC	C22S-DRL-XR-K01-230
White	White	24 Vac/Vdc	1NO	C22S-DRL-W-K10-24
		120 Vac	1NO	C22S-DRL-W-K10-120
		230 Vac	1NO	C22S-DRL-W-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22S-DRL-XW-K10-24
		120 Vac	1NO	C22S-DRL-XW-K10-120
		230 Vac	1NO	C22S-DRL-XW-K10-230
Blue	Blue	24 Vac/Vdc	1NO	C22S-DRL-B-K10-24
		120 Vac	1NO	C22S-DRL-B-K10-120
		230 Vac	1NO	C22S-DRL-B-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22S-DRL-XB-K10-24
		120 Vac	1NO	C22S-DRL-XB-K10-120
		230 Vac	1NO	C22S-DRL-XB-K10-230



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

1 Illuminated Pushbuttons, Flush, Maintained, with Pigtail

C22_DRL-G-



Illuminated Pushbuttons, Flush, Maintained, with Pigtail

Button Color	Contacts	Connector Length	Connector Type	Silver Bezel Catalog Number
Green	1NO	0.2	M12	C22-DRL-G-K10-24-P1
	1NO	0.5	M12	C22-DRL-G-K10-24-P3
	1NO	1	M12	C22-DRL-G-K10-24-P5
	1NO	1	Flying lead	C22-DRL-G-K10-24-P62
	1NO	3.5	Flying lead	C22-DRL-G-K10-24-P65
Red	1NC	0.2	M12	C22-DRL-R-K01-24-P1
	1NC	0.5	M12	C22-DRL-R-K01-24-P3
	1NC	1	M12	C22-DRL-R-K01-24-P5
	1NC	1	Flying lead	C22-DRL-R-K01-24-P62
	1NC	3.5	Flying lead	C22-DRL-R-K01-24-P65
Blue	1NO	0.2	M12	C22-DRL-B-K10-24-P1
	1NO	0.5	M12	C22-DRL-B-K10-24-P3
	1NO	1	M12	C22-DRL-B-K10-24-P5
	1NO	1	Flying lead	C22-DRL-B-K10-24-P62
	1NO	3.5	Flying lead	C22-DRL-B-K10-24-P65
White	1NO	0.2	M12	C22-DRL-W-K10-24-P1
	1NO	0.5	M12	C22-DRL-W-K10-24-P3
	1NO	1	M12	C22-DRL-W-K10-24-P5
	1NO	1	Flying lead	C22-DRL-W-K10-24-P62
	1NO	3.5	Flying lead	C22-DRL-W-K10-24-P65

Indicating Lights



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Indicating Lights

Product Description

C22 indicating lights use a combination of a durable, bright LED unit and modern lenses designed specifically for this type of LED to create a bright and visible indicating light.

Indicating lights with pigtail have options for M12 or flying lead connectors, providing high degree of protection options.

Note: For additional accessories, please see **Pages V7-T1-105 to V7-T1-111**, 22.5 mm Modular Pushbuttons—M22 Accessories.

Features

- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Lenses specifically designed for LED illumination
- Units with pigtail allow for direct machine mounting with high degree of protection backside

Protection Type

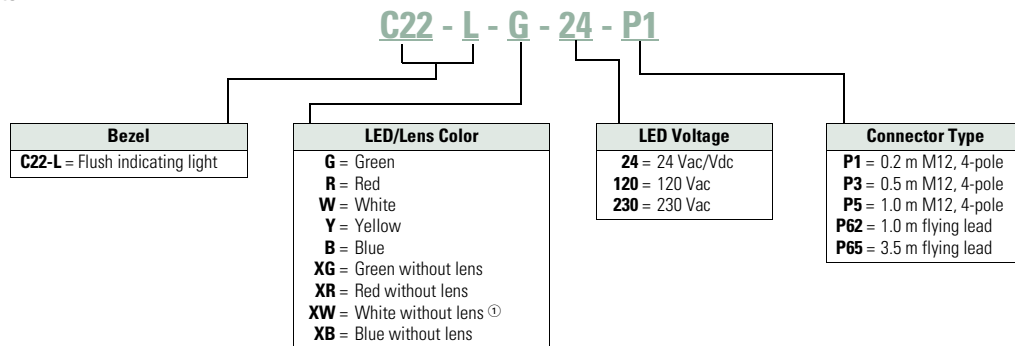
- IP67/IP69K
- NEMA 4X, 13
- IP65 rear rating with pigtail

1

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Indicating Lights



Product Selection

Indicating Lights

C22-L-__

Indicating Lights

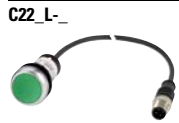


Lens Color	LED Color	Voltage	Catalog Number
Green	Green	24 Vac/Vdc	C22-L-G-24
		120 Vac	C22-L-G-120
		230 Vac	C22-L-G-230
Red	Red	24 Vac/Vdc	C22-L-R-24
		120 Vac	C22-L-R-120
		230 Vac	C22-L-R-230
White	White	24 Vac/Vdc	C22-L-W-24
		120 Vac	C22-L-W-120
		230 Vac	C22-L-W-230
Yellow	White	24 Vac/Vdc	C22-L-Y-24
		120 Vac	C22-L-Y-120
		230 Vac	C22-L-Y-230
Blue	Blue	24 Vac/Vdc	C22-L-B-24
		120 Vac	C22-L-B-120
		230 Vac	C22-L-B-230
Without Lens	Green	24 Vac/Vdc	C22-L-XG-24
		120 Vac	C22-L-XG-120
		230 Vac	C22-L-XG-230
	Red	24 Vac/Vdc	C22-L-XR-24
		120 Vac	C22-L-XR-120
		230 Vac	C22-L-XR-230
	White	24 Vac/Vdc	C22-L-XW-24
		120 Vac	C22-L-XW-120
		230 Vac	C22-L-XW-230
	Blue	24 Vac/Vdc	C22-L-XB-24
		120 Vac	C22-L-XB-120
		230 Vac	C22-L-XB-230

Note

① Use white LED for both white and yellow lenses.

C22 with Pigtail LED Options



C22 with Pigtail LED Options

24 Vac/Vdc only indicating lights.

Color	Connector Type	0.2 m Catalog Number	0.5 m Catalog Number	1.0 m Catalog Number	3.5 m Catalog Number
Green	M12	C22-L-G-24-P1	C22-L-G-24-P3	C22-L-G-24-P5	—
	Flying lead	—	—	C22-L-G-24-P62	C22-L-G-24-P65
Red	M12	C22-L-R-24-P1	C22-L-R-24-P3	C22-L-R-24-P5	—
	Flying lead	—	—	C22-L-R-24-P62	C22-L-R-24-P65
White	M12	C22-L-W-24-P1	C22-L-W-24-P3	C22-L-W-24-P5	—
	Flying lead	—	—	C22-L-W-24-P62	C22-L-W-24-P65
Yellow	M12	C22-L-Y-24-P1	C22-L-Y-24-P3	C22-L-Y-24-P5	—
	Flying lead	—	—	C22-L-Y-24-P62	C22-L-Y-24-P65
Blue	M12	C22-L-B-24-P1	C22-L-B-24-P3	C22-L-B-24-P5	—
	Flying lead	—	—	C22-L-B-24-P62	C22-L-B-24-P65

Emergency Stops



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Emergency Stops

Product Description

C22 emergency stops are a durable and reliable solution to a variety of e-stop applications. This compact e-stop, available as twist-to-release and keyed-release on pigtail products, is a simple product that eliminates the need for self-monitoring contact blocks, all while still meeting almost all of the industry safety standards.

E-stops with pigtails allow for direct machine mounting, eliminating the need for an enclosure with high degree of rear protection. Flying leads also allow for quick termination to nearby controls or functional safety devices.

Note: For additional accessories, please see **Pages V7-T1-105 to V7-T1-111**, 22.5 mm Modular Pushbuttons—M22 Accessories.

Features

- Available in push-pull, twist-release, twist-release with indicator, and key release on buttons with pigtails 38 mm through 60 mm operators
- Available with M12 or flying lead pigtails, allowing direct machine mounting and easy reliable connections
- Meet functional safety requirements for E-stops

Protection Type

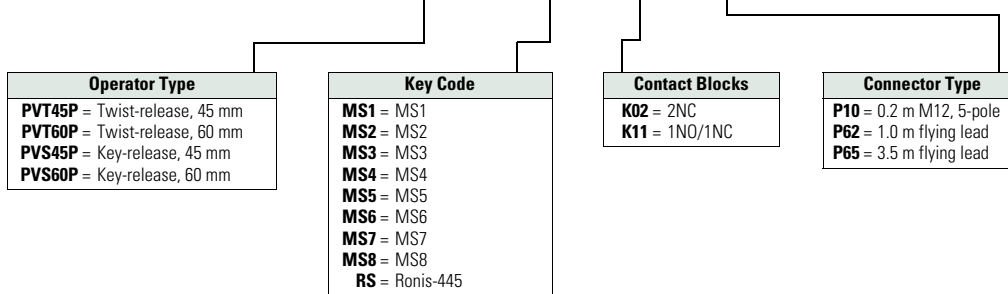
- Up to IP69K for increased protection. Check ecat.eaton.com for specifics
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Emergency Stops

C22 - PVS45P - MS1 - K01 - P10



Product Selection

Non-Illuminated, Twist-Release

Non-Illuminated Emergency Stops, Twist-Release



Release Method	Operator Size	Contact Block Configuration	Catalog Number
Twist-release	45 mm	2NC	C22-PVT45P-K02
		1NO/1NC	C22-PVT45P-K11
	60 mm	2NC	C22-PVT60P-K02
		1NO/1NC	C22-PVT60P-K11

E-stop

E-stop

	Release Method	Operator Size	Contacts	Connector Length	Connector Type	Catalog Number
C22-PV-K11-P62 	Push-pull	38 mm	2NC	1	Flying lead	C22-PV-K02-P62
		38 mm	2NC	3.5	Flying lead	C22-PV-K02-P65
		38 mm	1NO/1NC	1	Flying lead	C22-PV-K11-P62
		38 mm	1NO/1NC	3.5	Flying lead	C22-PV-K11-P65
		45 mm	2NC	0.2	M12, 5-pole	C22-PV-K02-P10
C22-PVT-K02-P65 	Twist release	38 mm	2NC	1	Flying lead	C22-PVT-K02-P62
		38 mm	2NC	3.5	Flying lead	C22-PVT-K02-P65
		38 mm	1NO/1NC	1	Flying lead	C22-PVT-K11-P62
		38 mm	1NO/1NC	3.5	Flying lead	C22-PVT-K11-P65
		45 mm	2NC	1	Flying lead	C22-PVT45P-K02-P62
		45 mm	2NC	3.5	Flying lead	C22-PVT45P-K02-P65
		45 mm	1NO/1NC	1	Flying lead	C22-PVT45P-K11-P62
		45 mm	1NO/1NC	3.5	Flying lead	C22-PVT45P-K11-P65
		45 mm	2NC	0.2	M12, 5-pole	C22-PVT45P-K02-P10
C22-PVT45PMPIK02-P65 	Twist release mechanical indication	45 mm	2NC	1	Flying lead	C22-PVT45PMPIK02-P62
		45 mm	2NC	3.5	Flying lead	C22-PVT45PMPIK02-P65
		45 mm	1NO/1NC	1	Flying lead	C22-PVT45PMPIK11-P62
		45 mm	1NO/1NC	3.5	Flying lead	C22-PVT45PMPIK11-P65

Note: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1.

Selector Switches



Selector Switches

Product Description

With over 20 variations of operation and 8 varieties of key codes, the C22 line offers a very complete line of selector switches.

Pigtail units come in M12 or flying lead options.

Note: For additional accessories, please see **Pages V7-T1-105 to V7-T1-111**, 22.5 mm Modular Pushbuttons—M22 Accessories.

Features

- Selector switch (non-keyed) rated for 1 million mechanical operations
- Rear pigtails provide IP65 front and rear ratings, eliminating enclosure requirements and reducing installation times

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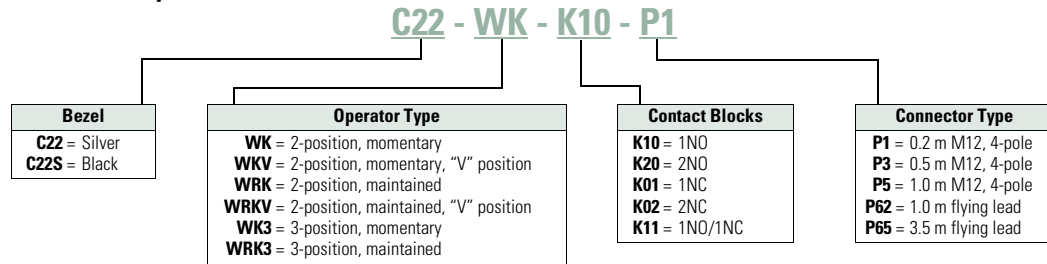
Protection Type

- IP65
- NEMA 4X, 13

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Selector Switches—Non-Keyed








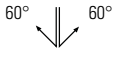
Product Selection

Non-Illuminated, Knob Type

C22(S)-WK- /
C22(S)-WRK_



Non-Illuminated Selector Switches, Knob Type

Type	Switching Position	Contact Block Configuration	Black Bezel Catalog Number
Two-position	Momentary 	1NO	C22S-WK-K10
		2NO	C22S-WK-K20
		1NC	C22S-WK-K01
		2NC	C22S-WK-K02
		1NO/1NC	C22S-WK-K11
	Momentary 	1NO	C22S-WKV-K10
		2NO	C22S-WKV-K20
		1NC	C22S-WKV-K01
		2NC	C22S-WKV-K02
		1NO/1NC	C22S-WKV-K11
	Maintained 	1NO	C22S-WRK-K10
		2NO	C22S-WRK-K20
1NC		C22S-WRK-K01	
2NC		C22S-WRK-K02	
1NO/1NC		C22S-WRK-K11	
Maintained 	1NO	C22S-WRKV-K10	
	2NO	C22S-WRKV-K20	
	1NC	C22S-WRKV-K01	
	2NC	C22S-WRKV-K02	
	1NO/1NC	C22S-WRKV-K11	
Three-position	Momentary 	2NO	C22S-WK3-K20
		2NC	C22S-WK3-K02
		1NO/1NC	C22S-WK3-K11
	Maintained 	2NO	C22S-WRK3-K20
		2NC	C22S-WRK3-K02
		1NO/1NC	C22S-WRK3-K11

Note: Momentary selector switches can be field converted to maintained.

1 Non-Illuminated Selector Switches, Knob Type, with Pigtail

C22-W_



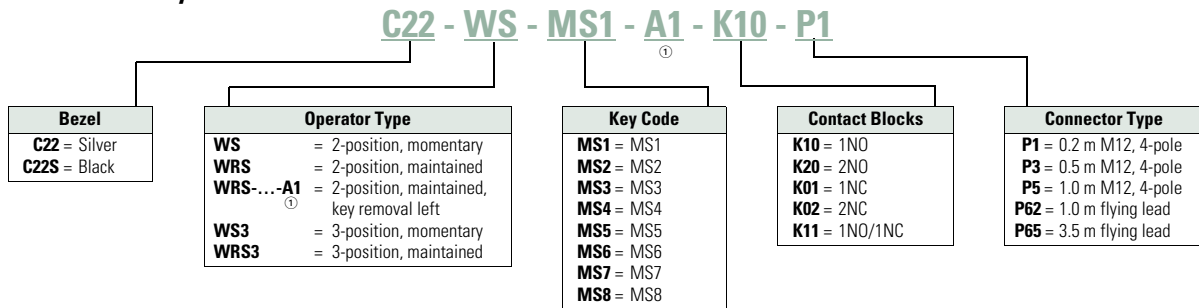
Non-Illuminated Selector Switches, Knob Type, with Pigtail

Type	Switching Position	Contacts	Connector Length	Connector Type	Silver Bezel Catalog Number
Two-position	Momentary	1NC	1	Flying lead	C22-WK-K01-P62
		1NC	3.5	Flying lead	C22-WK-K01-P65
		1NO	0.5	M12	C22-WK-K10-P1
		1NO	1	M12	C22-WK-K10-P5
		1NO	1	Flying lead	C22-WK-K10-P62
		1NO	3.5	Flying lead	C22-WK-K10-P65
		1NO/1NC	1	Flying lead	C22-WK-K11-P62
		1NO/1NC	3.5	Flying lead	C22-WK-K11-P65
		2NC	1	Flying lead	C22-WK-K02-P62
		2NC	3.5	Flying lead	C22-WK-K02-P65
		2NO	1	Flying lead	C22-WK-K20-P62
		2NO	3.5	Flying lead	C22-WK-K20-P65
	Maintained	1NC	1	Flying lead	C22-WRK-K01-P62
		1NC	3.5	Flying lead	C22-WRK-K01-P65
		1NO	0.5	M12	C22-WRK-K10-P1
		1NO	1	M12	C22-WRK-K10-P5
		1NO	1	Flying lead	C22-WRK-K10-P62
		1NO	3.5	Flying lead	C22-WRK-K10-P65
		1NO/1NC	1	Flying lead	C22-WRK-K11-P62
		1NO/1NC	3.5	Flying lead	C22-WRK-K11-P65
		2NC	1	Flying lead	C22-WRK-K02-P62
		2NC	3.5	Flying lead	C22-WRK-K02-P65
		2NO	1	Flying lead	C22-WRK-K20-P62
		2NO	3.5	Flying lead	C22-WRK-K20-P65
Three-position	Momentary	1NO/1NC	1	Flying lead	C22-WK3-K11-P62
		1NO/1NC	3.5	Flying lead	C22-WK3-K11-P65
		2NC	1	Flying lead	C22-WK3-K02-P62
		2NC	3.5	Flying lead	C22-WK3-K02-P65
		2NO	1	Flying lead	C22-WK3-K20-P62
		2NO	3.5	Flying lead	C22-WK3-K20-P65
	Maintained	1NO/1NC	1	Flying lead	C22-WRK3-K11-P62
		1NO/1NC	3.5	Flying lead	C22-WRK3-K11-P65
		2NC	1	Flying lead	C22-WRK3-K02-P62
		2NC	3.5	Flying lead	C22-WRK3-K02-P65
		2NO	1	Flying lead	C22-WRK3-K20-P62
		2NO	3.5	Flying lead	C22-WRK3-K20-P65

Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Selector Switches—Keyed



Non-Illuminated Selector Switches, Key Operated, with Pigtail



Non-Illuminated Selector Switches, Key Operated, with Pigtail

Position	Switching Position	Contacts	Connector Length	Connector Type	Silver Bezel Catalog Number
Two-position	Momentary 40°	1NC	1 m	Flying lead	C22-WS-MS1-K01-P62
		1NC	3.5 m	Flying lead	C22-WS-MS1-K01-P65
		1NO	0.2 m	M12	C22-WS-MS1-K10-P1
		1NO	1 m	M12	C22-WS-MS1-K10-P5
		1NO	1 m	Flying lead	C22-WS-MS1-K10-P62
		1NO	3.5 m	Flying lead	C22-WS-MS1-K10-P65
		1NO/1NC	1 m	Flying lead	C22-WS-MS1-K11-P62
		1NO/1NC	3.5 m	Flying lead	C22-WS-MS1-K11-P65
		2NC	1 m	Flying lead	C22-WS-MS1-K02-P62
		2NC	3.5 m	Flying lead	C22-WS-MS1-K02-P65
		2NO	1 m	Flying lead	C22-WS-MS1-K20-P62
		2NO	3.5 m	Flying lead	C22-WS-MS1-K20-P65
	Maintained 60°	1NC	1 m	Flying lead	C22-WRS-MS1-K01-P62
		1NC	3.5 m	Flying lead	C22-WRS-MS1-K01-P65
		1NO	0.2 m	M12	C22-WRS-MS1-K10-P1
		1NO	1 m	M12	C22-WRS-MS1-K10-P5
		1NO	1 m	Flying lead	C22-WRS-MS1-K10-P62
		1NO	3.5 m	Flying lead	C22-WRS-MS1-K10-P65
		1NO/1NC	1 m	Flying lead	C22-WRS-MS1-K11-P62
		1NO/1NC	3.5 m	Flying lead	C22-WRS-MS1-K11-P65
		2NC	1 m	Flying lead	C22-WRS-MS1-K02-P62
		2NC	3.5 m	Flying lead	C22-WRS-MS1-K02-P65
		2NO	1 m	Flying lead	C22-WRS-MS1-K20-P62
		2NO	3.5 m	Flying lead	C22-WRS-MS1-K20-P65
Three-position	Momentary 40°	1NO/1NC	1 m	Flying lead	C22-WS3-MS1-K11-P62
		1NO/1NC	3.5 m	Flying lead	C22-WS3-MS1-K11-P65
		2NC	1 m	Flying lead	C22-WS3-MS1-K02-P62
		2NC	3.5 m	Flying lead	C22-WS3-MS1-K02-P65
		2NO	1 m	Flying lead	C22-WS3-MS1-K20-P62
		2NO	3.5 m	Flying lead	C22-WS3-MS1-K20-P65
	Maintained 60°	1NO/1NC	1 m	Flying lead	C22-WRS3-MS1-K11-P62
		1NO/1NC	3.5 m	Flying lead	C22-WRS3-MS1-K11-P65
		2NC	1 m	Flying lead	C22-WRS3-MS1-K02-P62
		2NC	3.5 m	Flying lead	C22-WRS3-MS1-K02-P65
		2NO	1 m	Flying lead	C22-WRS3-MS1-K20-P62
		2NO	3.5 m	Flying lead	C22-WRS3-MS1-K20-P65

Technical Data and Specifications

22.5 mm RMQ Compact Pushbuttons—C22

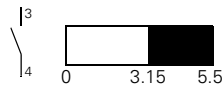
Description	Unit	Pushbutton Actuators Illuminated Pushbuttons C22		Indicator Lights C22	Selector Switch Actuators C22	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22	
		Momentary	Maintained					
General								
Standards	IEC/EN 60947 VDE 0660							
Lifespan, mechanical	Operations	x 10 ⁶	5	1	—	1	0.1	0.05
Operating frequency	Operations/h		≥3600	≥3600	—	≥2000	≥100	≥300
Actuating force	N		≥5	≥5	—	—	—	≥50
Operating torque	Nm		—	—	—	≥0.3	≥0.5	—
Terminal screw tightening torque	Nm		0.8	0.8	0.8	0.8	0.8	0.8
Threaded ring tightening torque	Nm		2	2	2	2	2	2
Protection type			IP67, IP69K	IP67, IP69K	IP67, IP69K	IP65	IP66	IP67, IP69K
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30							
Ambient temperature								
Open	°C		–25° to 70°	–25° to 70°	–25° to 70°	–25° to 70°	–25° to 70°	–25° to 70°
Storage	°C		–30° to 80°	–30° to 80°	–30° to 80°	–30° to 80°	–30° to 80°	–30° to 80°
Mounting position			As required	As required	As required	As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal	g		30	30	30	30	30	30
Terminal capacities								
Solid	mm ²		2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5
Flexible with ferrule	mm ²		2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5
Contacts								
Rated impulse withstand voltage	U _{imp}	Vac	4000	4000	4000	4000	4000	4000
Rated insulation voltage	U _i	V	250	250	250	250	250	250
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3	III/3
Control circuit reliability								
at 5 Vdc/1 mA	H _F	Fault probability	Values follow	Values follow	—	Values follow	Values follow	Values follow
at 17 Vdc/7 mA	H _F	Fault probability	N/O contact: statistically determined 1 failure per 17 x 10 ⁶ operations N/C contact: statistically determined 1 failure per 0.9 x 10 ⁶ operations		—	N/O contact: statistically determined 1 failure per 17 x 10 ⁶ operations N/C contact: statistically determined 1 failure per 0.9 x 10 ⁶ operations		
at 24 Vdc/5 mA	H _F	Fault probability	Values follow	Values follow	—	Values follow	Values follow	Values follow
Max. short-circuit protective device								
Fuse	gG/gL	A	10	10	—	10	10	10

22.5 mm RMQ Compact Pushbuttons—C22, continued

Description	Unit	Push-button Actuators		Indicator Lights C22	Selector Switch Actuators C22	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22
		Illuminated Pushbuttons C22	Momentary				
Switching Capacity							
Rated operational current							
AC-15							
24V	I_e	A	4	4	—	4	4
110V	I_e	A	2	2	—	2	2
230V	I_e	A	1.5	1.5	—	1.5	1.5
DC-13							
24V	I_e	A	3	3	—	3	3
60V	I_e	A	1	1	—	1	1
110V	I_e	A	0.6	0.6	—	0.6	0.6
220V	I_e	A	0.3	0.3	—	0.3	0.3
Lifespan, electrical							
AC-15							
230V/0.5A	Operations	$\times 10^6$	0.4	0.4	—	0.4	0.4
230V/1.0A		$\times 10^6$	0.6	0.6	—	0.6	0.6

Contact Travel

Contact Travel Diagram



- Contact closed
- Contact open

1.5

Pushbuttons and Indicating Lights

22.5 mm RMQ Compact Pushbuttons—C22

1

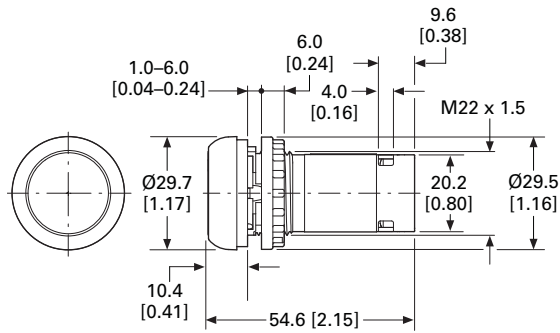
Dimensions

Approximate Dimensions in mm [in]

Illuminated Pushbuttons

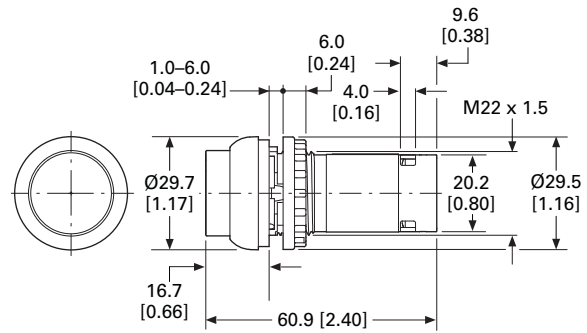
Flat

C22(S)-DRL_/C22(S)-DL_



Extended

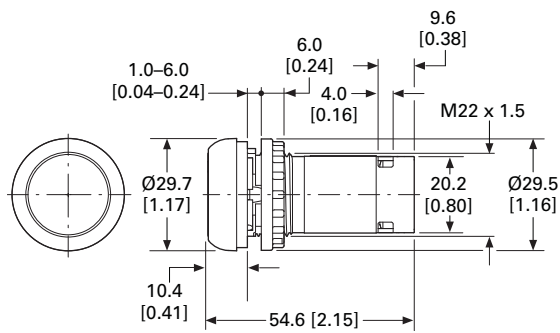
C22(S)-DRLH_/C22(S)-DLH_



Pushbutton Actuators

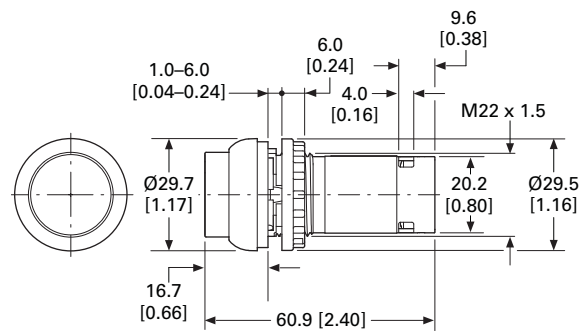
Flat

C22(S)-DR_/C22(S)-D_



Extended

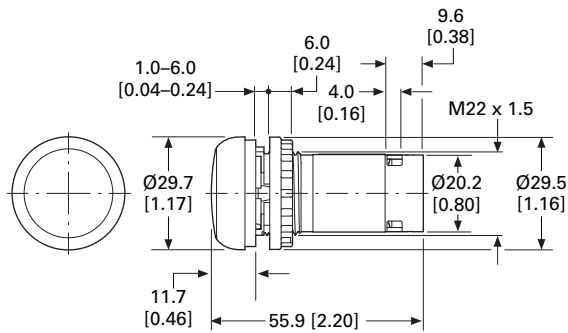
C22(S)-DRH_/C22(S)-DH_



Indicating Lights

Flat

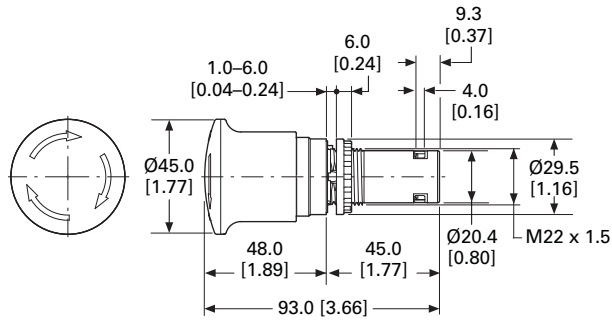
C22-L_



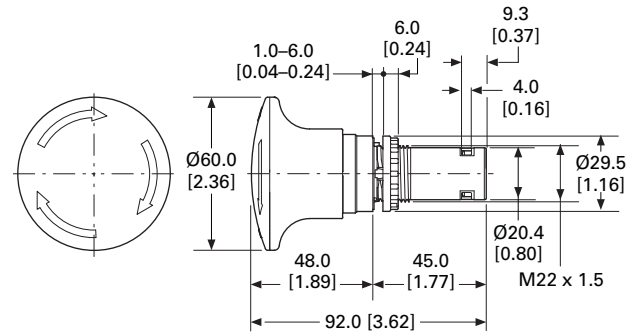
Approximate Dimensions in mm [in]

Emergency Stop/Emergency Switching OFF Pushbuttons

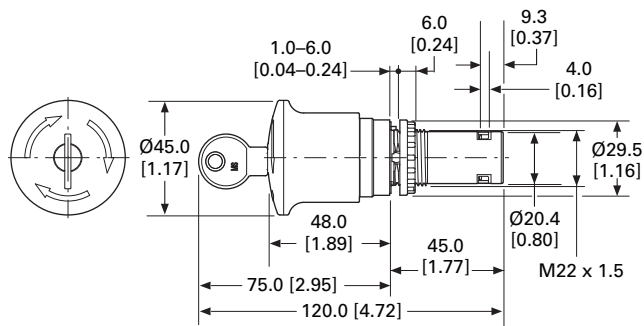
C22-PVT45P_



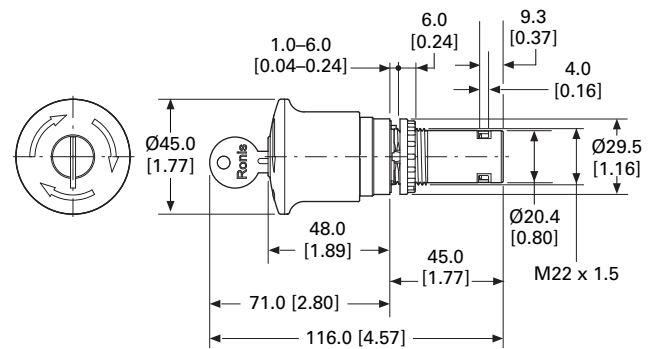
C22-PVT60P_



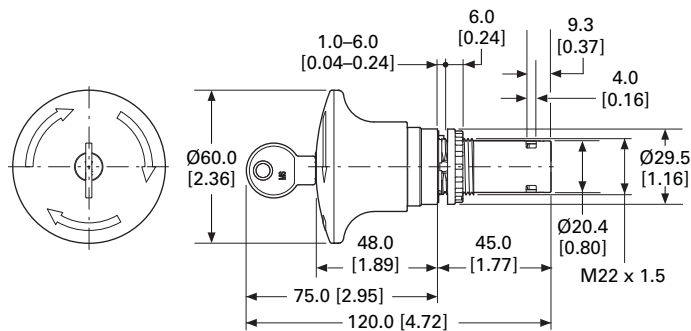
C22-PVT45P-MS_



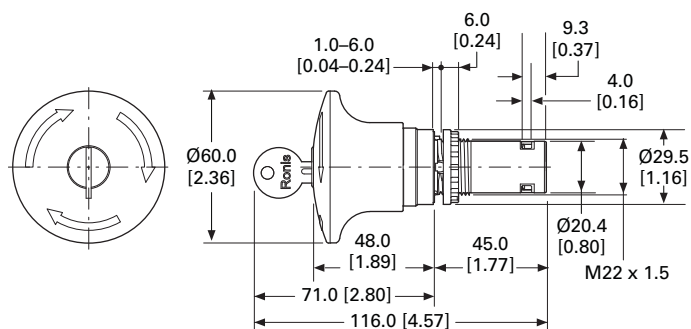
C22-PVT45P-RS_



C22-PVT60P-MS_



C22-PVT60P-RS_



1.5

Pushbuttons and Indicating Lights

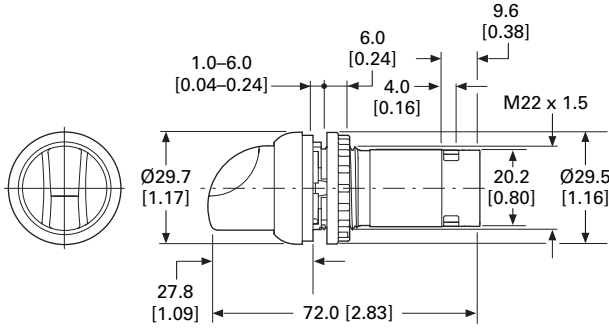
22.5 mm RMQ Compact Pushbuttons—C22

1

Approximate Dimensions in mm [in]

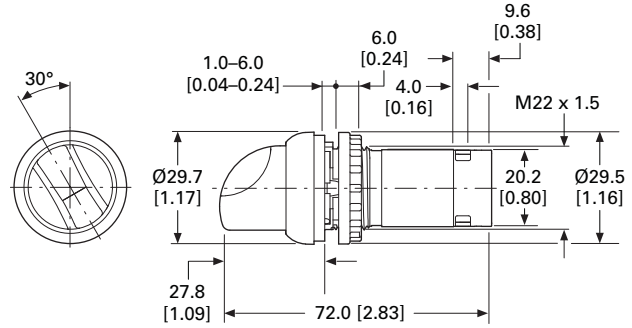
Selector Switch Actuators

C22(S)-W(R)K_



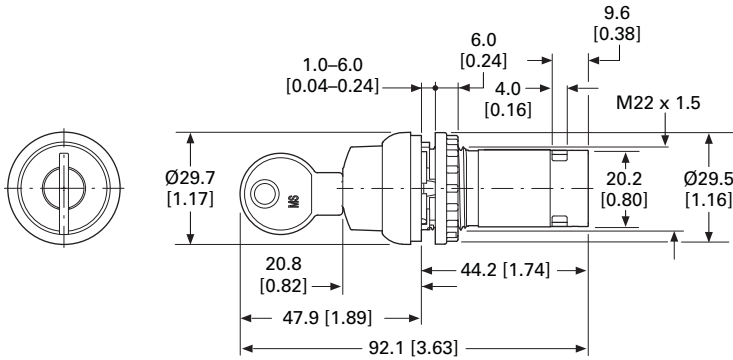
Selector Switch Actuators/V Position

C22(S)-W(R)KV_

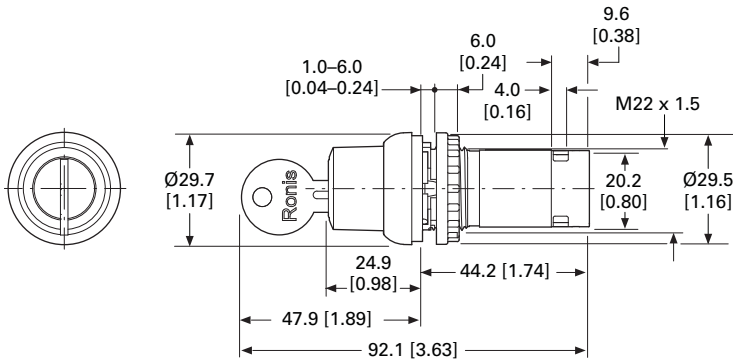


Key Operated Actuators

C22(S)-WS(3)-MS_/C22(S)-WRS(3)-MS_



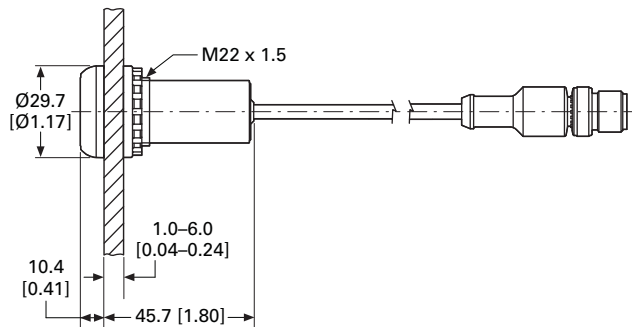
C22(S)-WS(3)-RS_/C22(S)-WRS(3)-RS_



Approximate Dimensions in mm [in]

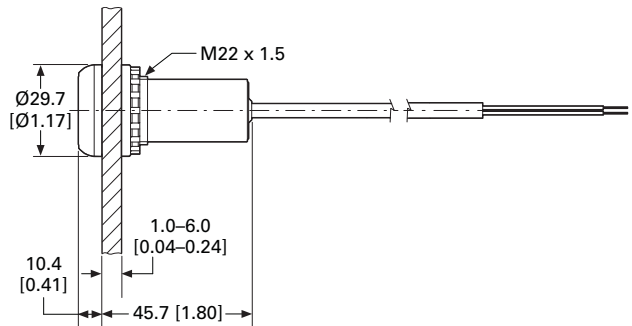
Pushbuttons, M12A

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



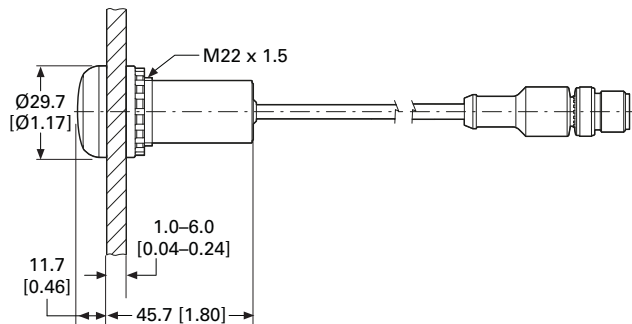
Pushbuttons, Unterminated Cable End, Flying Lead

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



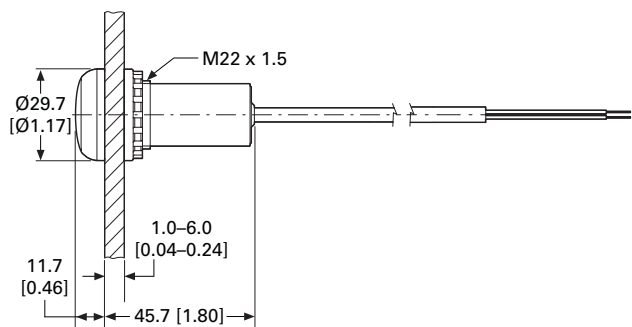
Indicator Lights, M12A

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



Indicator Lights, Unterminated Cable End, Flying Lead

C22-L...-P62/-P65



1.5

Pushbuttons and Indicating Lights

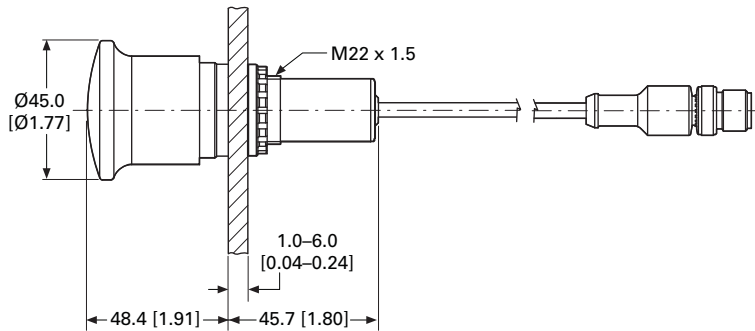
22.5 mm RMQ Compact Pushbuttons—C22

1

Approximate Dimensions in mm [in]

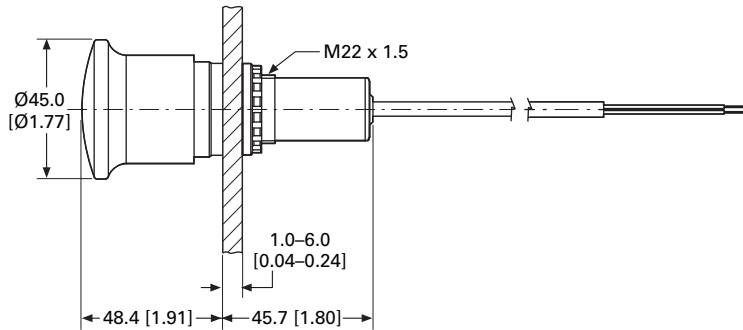
Emergency Switching Off, M12A

C22-PVT...-P10



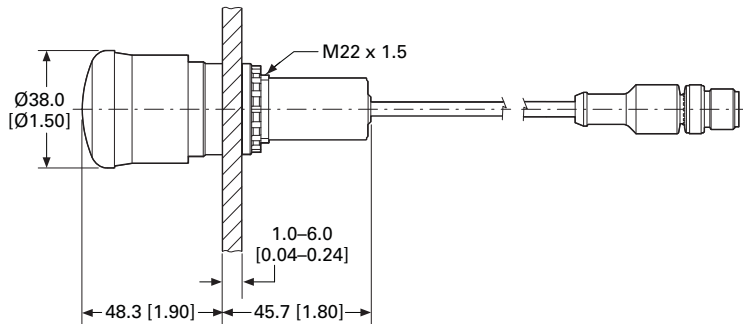
Emergency Switching Off, Underterminated Cable End, Flying Lead

C22-PVT...-P62/-P65



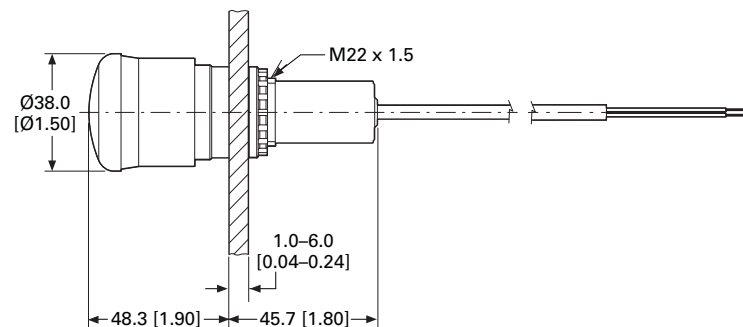
Emergency Switching Off, M12

C22-PV...-P10



Emergency Switching Off, Underterminated Cable End, Flying Lead

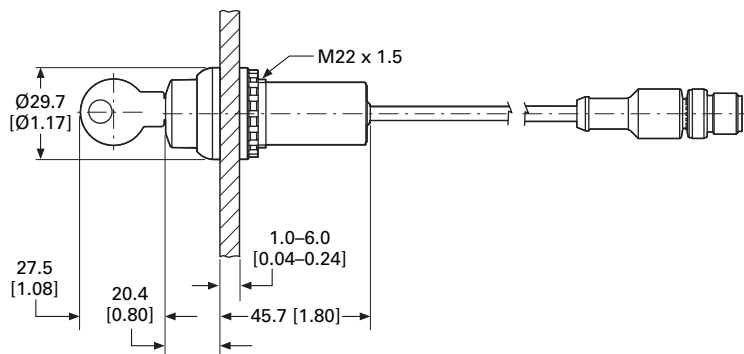
C22-PV...-P62/-P65



Approximate Dimensions in mm [in]

Key-Operated Buttons, M12A

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



Key-Operated Buttons, Underterminated Cable End, Flying Lead

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

