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Low-intensity Red and IR Obstruction Lights (

CHS controls CHS Controls AB

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ICAO Low-intensity Type A 10cd, Type B 32cd and Type E 32cd Low-intensity 50cd FAA L-810 Infrared 850nm

Optical characteristics

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- 10cd red and IR
- 32cd red and IR
- 50cd red and IR
- Red or IR only
- Color aviation RED
- Horizontal beam 360°
- Vertical beam >10°
- Infrared 850nm
- All models fixed or flashing
- Photocell for Day / Night switch
- LEDs lifetime is at least 100 000 hours

Specifications met

ICAO International Standards and Recommended Practices: Aerodromes Annex 14 Volume 1, 8th Edition, July 2018, Chapter 6: Low-intensity Type A Low-intensity Type B Low-intensity Type E

FAA Advisory Circular (9/28/2016) AC 150/5345-43H: L-810 L-810F

Finnish Civil Aviation Authority, TraFi (FIN)

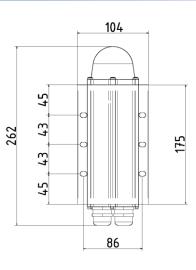
Transportstyrelsen TSFS 2020:88 (SWE)

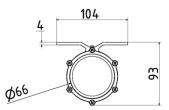
Luftfartstilsynet FOR-2014-07-15-980 (NOR)

Ministerie van Infrastructuur en Milieu (lage intensiteit), 30.9.2016 (NLD)

German Aviation Regulations (D), certified as Hindernisfeuer ES, AVV Kennzeichnung from 15.12.2023







Picture for illustration only

Low-intensity Obstruction Lights

LED Aviation Obstruction Lights

Obelux low-intensity obstruction light with fully Night Vision Goggle (NVG) compliant infrared. The light is designed for marking tall structures such as wind turbines, chimneys, masts, and towers. The product offers unique features such as fault monitoring, photocell and switcher incorporated in the light. Optionally the lights can be connected to Obelux aviation light system through Modbus.

Key Features

- Based on LED technology
- Low-intensity RED fixed and flashing
- NVG compliant infrared (IR)
- Incorporated photocell for Day/Night switching
- GPS synchronization
- Both stand-alone and Modbus operation available
- Extremely low power consumption
- Provides long maintenance free operating time
- ► 5-year warranty, optional 10-year warranty
- Cold spare operation
- Thermostat controlled heater
- Smart heater (DC models)
 - Deep discharge protection (DC models)
 - Battery powered operation (DC models)



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Electrical Characteristics

- AC models: AC voltage range: Nominal 100-250V_{AC} @ 50-60Hz
- ► DC models: DC voltage range: 10-60V_{DC}
- Robust overvoltage protection (Type II)
- Isolated RS-485

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 Alarm relay Ratings: 250VAC @ 8A; 50VDC @ 1A

Mechanical Characteristics

- Anodized, marine grade aluminum body and end parts
- AISI316 acid proof stainless steel screws
- Glass cover, degree of protection IP65
- Acrylic lenses, UV protected
- Operating temperature range -40...+55 °C
- ► Height 255 mm, diameter 104 mm
- Weight 1,3 kg (without mounting set)
- Terminal blocks for 0.2...4 mm² (24-12 AWG) wires

Mounting Set Options

- MS-HV80
- MS-EV60
- MS-EV100
- MS-EV150
- MS-DEV60
- MS-DEV100
- MS-RW
- MS-LVU/LVA
- MS-N1B
- MS-WT1/5

Optional Controllers

► CP-XX Series (Interfaces: Ethernet TCP/IP and RS-485/Modbus)

CP-M1 Series (Interface: RS-485/Modbus)



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Product codes

In codes -GAM, G = GPS, A = alarm relay, M = Modbus

Basic versions (-A) are highlighted with yellow color.

Low intensity 10cd red + Infrared (IR) Type A

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Order code	ICAO	Output	Operating voltage	Power consum ption	IR	Photocell	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS											
LI-AC-10-A	Туре А	10cd	100-250VAC	0.65VA	No	Yes	Yes	No	No	Yes	Yes
LI-AC-10-AM	Туре А	10cd	100-250VAC	0.8VA	No	Yes	Yes	Yes	No	Yes	Yes
LI-AC-10-GAM	Туре А	10cd	100-250VAC	0.8VA	No	Yes	Yes	Yes	Yes	Yes	Yes
LI-AC-10-IR-A	Type A	10cd+IR	100-250VAC	0.85VA	Yes	Yes	Yes	No	No	Yes	Yes
LI-AC-10-IR-AM	Туре А	10cd+IR	100-250VAC	0.85VA	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-AC-10-IR-GAM	Туре А	10cd+IR	100-250VAC	1.0VA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS											
LI-DC-10-A	Туре А	10cd	10-60VDC	0.5W	No	Yes	Yes	No	No	Yes	Yes
LI-DC-10-AM	Type A	10cd	10-60VDC	0.5W	No	Yes	Yes	Yes	No	Yes	Yes
LI-DC-10-GAM	Туре А	10cd	10-60VDC	0.65W	No	Yes	Yes	Yes	Yes	Yes	Yes
LI-DC-10-IR-A	Type A	10cd+IR	10-60VDC	0.72W	Yes	Yes	Yes	No	No	Yes	Yes
LI-DC-10-IR-AM	Туре А	10cd+IR	10-60VDC	0.72W	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-DC-10-IR-GAM	Туре А	10cd+IR	10-60VDC	0.85W	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Low intensity 10cd red + Infrared (IR) Type A, D (Germany): certified as Hindernisfeuer ES (inclusive IR)

Order code	ICAO	Output	Operating voltage	Average power consumption	IR	Photocell	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS											
LI-AC-10-IR-A-D	Туре А	10cd+IR	100-250VAC	1.2W	Yes	Yes	Yes	No	No	Yes	Yes
LI-AC-10-IR-AM-D	Type A	10cd+IR	100-250VAC	1.3W	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-AC-10-IR-GAM-D	Туре А	10cd+IR	100-250VAC	1.4W	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS											
LI-DC-10-IR-A-D	Type A	10cd+IR	10-60VDC	1.1W	Yes	Yes	Yes	No	No	Yes	Yes
LI-DC-10-IR-AM-D	Туре А	10cd+IR	10-60VDC	1.1W	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-DC-10-IR-GAM-D	Type A	10cd+IR	10-60VDC	1.3W	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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Low intensity 32cd red + Infrared (IR) Type B and E

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Order code	ICAO / FAA	Out put	Operating voltage	Power consum ption	IR	Photocell	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS											
LI-AC-32-A	Type B/E / L-810	32cd	100-250VAC	1.2VA	No	Yes	Yes	No	No	Yes	Yes
LI-AC-32-AM	Type B/E / L-810	32cd	100-250VAC	1.2VA	No	Yes	Yes	Yes	No	Yes	Yes
LI-AC-32-GAM	Type B/E / L-810	32cd	100-250VAC	1.3VA	No	Yes	Yes	Yes	Yes	Yes	Yes
LI-AC-32-IR-A	Type B/E / L-810	32cd +IR	100-250VAC	1.4VA	Yes	Yes	Yes	No	No	Yes	Yes
LI-AC-32-IR-AM	Type B/E / L-810	32cd +IR	100-250VAC	1.4VA	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-AC-32-IR-GAM	Type B/E / L-810	32cd +IR	100-250VAC	1.5VA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS											
LI-DC-32-A	Type B/E / L-810	32cd	10-60VDC	1.1W	No	Yes	Yes	No	No	Yes	Yes
LI-DC-32-AM	Type B/E / L-810	32cd	10-60VDC	1.1W	No	Yes	Yes	Yes	No	Yes	Yes
LI-DC-32-GAM	Type B/E / L-810	32cd	10-60VDC	1.2W	No	Yes	Yes	Yes	Yes	Yes	Yes
LI-DC-32-IR-A	Type B/E / L-810	32cd +IR	10-60VDC	1.3W	Yes	Yes	Yes	No	No	Yes	Yes
LI-DC-32-IR-AM	Type B/E / L-810	32cd +IR	10-60VDC	1.3W	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-DC-32-IR-GAM	Type B/E / L-810	32cd +IR	10-60VDC	1.4W	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Low intensity 50cd red + Infrared (IR)

Order code	ICAO / FAA	Output	Operating voltage	Power consum ption	IR	Photocell	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS											
LI-AC-50-A	-	50cd	100-250VAC	2.4VA	No	Yes	Yes	No	No	Yes	Yes
LI-AC-50-AM	-	50cd	100-250VAC	2.4VA	No	Yes	Yes	Yes	No	Yes	Yes
LI-AC-50-GAM	-	50cd	100-250VAC	2.5VA	No	Yes	Yes	Yes	Yes	Yes	Yes
LI-AC-50-IR-A	-	50cd+IR	100-250VAC	2.6VA	Yes	Yes	Yes	No	No	Yes	Yes
LI-AC-50-IR-AM	-	50cd+IR	100-250VAC	2.6VA	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-AC-50-IR-GAM	-	50cd+IR	100-250VAC	2.7VA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS											
LI-DC-50-A	-	50cd	10-60VDC	2.2W	No	Yes	Yes	No	No	Yes	Yes
LI-DC-50-AM	-	50cd	10-60VDC	2.2W	No	Yes	Yes	Yes	No	Yes	Yes
LI-DC-50-GAM	-	50cd	10-60VDC	2.3W	No	Yes	Yes	Yes	Yes	Yes	Yes
LI-DC-50-IR-A	-	50cd+IR	10-60VDC	2.4W	Yes	Yes	Yes	No	No	Yes	Yes
LI-DC-50-IR-AM	-	50cd+IR	10-60VDC	2.4W	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-DC-50-IR-GAM	-	50cd+IR	10-60VDC	2.5W	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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IR only

Order code	Output (adjustable 1-400mW/sr)	Operating voltage	Power consum ption	IR	Photocell	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS										
LI-AC-IR-A-X	IR	100-250VAC	0.6VA	Yes	Yes	Yes	No	No	Yes	Yes
LI-AC-IR-AM-X	IR	100-250VAC	0.6VA	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-AC-IR-GAM-X	IR	100-250VAC	0.8VA	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS										
LI-DC-IR-A-X	IR	10-60VDC	0.4W	Yes	Yes	Yes	No	No	Yes	Yes
LI-DC-IR-AM-X	IR	10-60VDC	0.4W	Yes	Yes	Yes	Yes	No	Yes	Yes
LI-DC-IR-GAM-X	IR	10-60VDC	0.6W	Yes	Yes	Yes	Yes	Yes	Yes	Yes

X: IR power (mW/sr)

Power consumption depends on output light intensity

Light intensity depends on beam width (default beam width 20°)

Beam width set in factory

Flash rate and power are software configurable (flashing is not limited to constant rates, any flash sequence can be programmed, e.g. SOS signal)

DC models idle power consumptions: 0.5W (light off, with GPS), 0.35W (light off, without GPS)

Heater increases power consumption by 7W; heater turns on when temperature drops below 10 °C; heater can be set ON/OFF Factory setting: Heater ON

Water protection class IP65 applies when the device is mounted vertically glass cover facing up

All models available with IP67 water protection class (append -67 to product code, e.g. LI-AC-10-A-67)

Packing dimensions and weight: 280mm x 130mm x 100mm, 1.5kg



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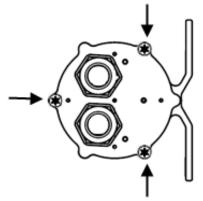
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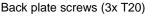
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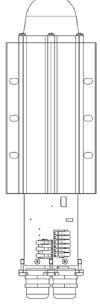
Cabling specifications

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- ► Cable gland M25
- Cable diameter 11-17 mm (includes cable gland seal 6-13 mm)
- ▶ Wire diameter max. 4 mm²
- Recommended cables
 - Power: 3G1,5 mm² or 3G2,5 mm²
 - Data: 3G0,5 mm² -3G1,5 mm², shielded
 - Power + Data: Hybrid cable (e.g. Servo cable)



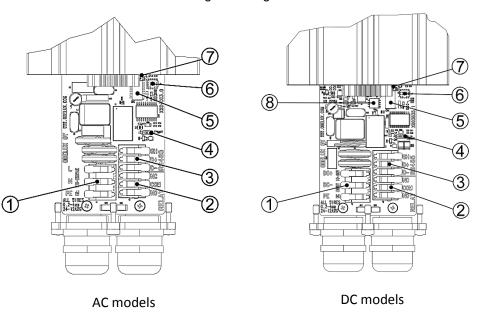




Installation instructions

Open the three back plate screws (Torx 20). The bottom plate and the main circuit board slide out. Route power and data cables using cable gland(s) on the back side of the light. Connect the cable wires securely to appropriate terminal block connectors. Slide the bottom plate properly in its place and securely tighten all screws. Make sure that all unused glands or gland holes are sealed.

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1 Power input

Mark	Descriptio	on Information							
L	Live	Connect to power supply live terminal							
Ν	Neutral	Connect to power supply neutral terminal							
PE	Ground	Protective earth							
Mark	Descriptio	on Information							
DC+	Positive	Connect to power supply positive terminal							
DC-	Negative	Connect to power supply negative terminal							
PE	Ground	Protective earth							
2 Al	arm relay out	put							
3 RS	-485 port								
Mark	Description	Information							
D+	Data+	RS-485 non-inverting pin							
D+ D-									
	Data+	RS-485 non-inverting pin							
D- SH	Data+ Data- Shield	RS-485 non-inverting pin RS-485 inverting pin							
D- SH 4 RS	Data+ Data- Shield	RS-485 non-inverting pin RS-485 inverting pin Cable shield connection tion DIP switch							
D- SH 4 RS 5 Co	Data+ Data- Shield -485 termina	RS-485 non-inverting pin RS-485 inverting pin Cable shield connection tion DIP switch IP switches							

- 7 Reset button
- 8 Deep discharge protection switches (DC models)

Light opened up



Configuring Obelux Low-Intensity Series Lights

Configuration is not necessary for a steady burning (light on all the time) light in Stand-alone mode. It is the factory default.

Stand-alone mode

Configuration DIP switches 1-4 are used to control the photocell mode (enabled/disabled), the photocell threshold values, and the flashing settings.

The factory default setting is steady-burning mode without photocell control. With the photocell operation enabled, the obstruction light turns on when the ambient light level has dropped below the selected level. The light turns off when the ambient light level has exceeded the selected value. The turn-on and turn-off times are approximately 3 minutes. Low powered obstruction light has practically no visibility in day. The light causes no light pollution. It is recommended to keep the photocell disabled. The lights power consumption is low.

DIP s	witch	Photocell threshold					
1	2	Filoloceii liireshold					
off	off	Photocell disabled * (light on all the time)					
on	off	200 lx (dark)					
off	on	400 lx (twilight)					
on	on	1600 lx (between twilight and midday), recommended if photocell is used					

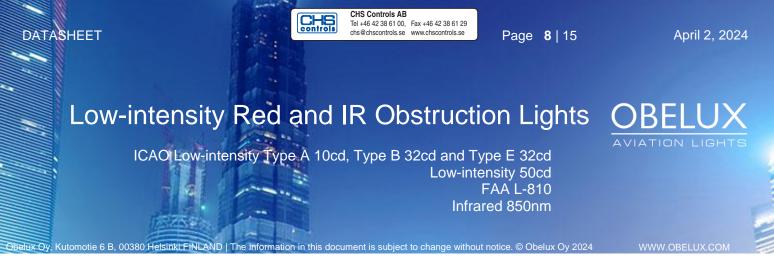
DIP s	witch	Flash rate (FPM)						
3	4	Flash late (FFM)						
off	off	Steady burning *						
on	off	20						
off	on	30						
on	on	40						
Not	used	configurable FPM with software, e.g. Morse code or 60 FPM possible						

With DIP switch 5, IR can be set off in lights that have IR. By default, lights that don't have IR have DIP switch 5 OFF.

With DIP switch 6, heater can be set on or off. In cold climates, the heater prevents moisture build-up and keeps the light clean from snow and ice. The power consumption of the low-intensity light is low while producing minimum heat. Using the heater in cold and damp conditions is recommended. The heater is beneficial to keep the light operating more reliably.

DIP switch	Infrared	DIP switch	Heater **
5	innaleu	6	nealei
off	OFF	off	OFF
on	ON *	on	ON *

With DIP switch 7, the light can be set to Master or Slave mode. In Master mode, the light can monitor and control a network of lights. The Master light uses its alarm relay if any of the lights has an alarm. Software configuration is required for the lights. If the light isn't used as a Master, set the light in Slave mode. Check manual for more details.



Turn off DIP switch 8 for stand-alone operation.

DIP switch	Master/Slave	DIP switch	Operating mode
7	mode	8	Operating mode
off	Slave *	off	Standalone *
on	Master	on	Modbus

* Factory setting

** In DC models, in battery power, it is recommended to set to OFF or use Smart heater feature to reduce power consumption

Modbus mode (-AM and -GAM models)

Configuration DIP switches 1-5 are used to set the light a Modbus address. Duplicate addresses on the same bus are not allowed. Give each device a unique address. The addresses need to be set from lowest to highest in order. E.g. if 3 devices are used, they need to be in addresses 1, 2 and 3.

Note: No address is set to a Master light (DIP switch 7: Master - Slave functionality).

	DI	P swite	ch		Madhua Adduaa
1	2	3	4	5	Modbus Address
on	off	off	off	off	Address 01
off	on	off	off	off	Address 02
on	on	off	off	off	Address 03
off	off	on	off	off	Address 04
on	off	on	off	off	Address 05
off	on	on	off	off	Address 06
on	on	on	off	off	Address 07
off	off	off	on	off	Address 08
on	off	off	on	off	Address 09
off	on	off	on	off	Address 10
on	on	off	on	off	Address 11
off	off	on	on	off	Address 12
on	off	on	on	off	Address 13
off	on	on	on	off	Address 14
on	on	on	on	off	Address 15
off	off	off	off	on	Address 16
on	off	off	off	on	Address 17
off	on	off	off	on	Address 18
on	on	off	off	on	Address 19
off	off	on	off	on	Address 20
on	off	on	off	on	Address 21
off	on	on	off	on	Address 22
on	on	on	off	on	Address 23
off	off	off	on	on	Address 24
on	off	off	on	on	Address 25
off	on	off	on	on	Address 26
on	on	off	on	on	Address 27
off	off	on	on	on	Address 28



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	DIP switch				Modbus Addross			
1	2	3	4	5	Modbus Address			
on	off	on	on	on	Address 29			
off	on	on	on	on	Address 30			
on	on	on	on	on	Address 31			

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DIP switch	Heater **
6	neater
off	OFF
on	ON *

DIP switch 7 must be off (Slave mode).

DIP switch	Master/Slave mode
7	Waster/Slave mode
off	Slave *
on	Master

Turn on DIP switch 8 to configure the light into Modbus operation. The light is being controlled with an Obelux controller.

DIP switch	Operating mode			
8	Operating mode			
off	Standalone *			
on	Modbus			

* Factory setting

** In DC models, in battery power, it is recommended to set to OFF or use Smart heater feature to reduce power consumption

RS-485 bus should be terminated with on-board 120 ohm resistors by turning on the RS-485 termination DIP switch on both ends of the communications bus.

Programming terminal

Light software and configuration settings are upgradable via programming terminal or RS-485 (Modbus) terminal. The programming terminal is used in lights that don't have the Modbus option. Setting a flash rate, photocell threshold and special flash sequences are possible, e.g. Morse code. Updates can be made either with a RS-485 configuration cable (Part code: CONFIG01-RS-485) via RS-485 port by or with a RS-232 configuration cable (Part code: CONFIG01-RXTX) via the programming terminal. The configuration cables connect to a computer via USB. Obelux lamp configuration tool software in the computer establishes a connection to the light and makes the updates.



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DC models features on battery power

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Smart heater

- Monitors light's input voltage and turns off the heater if the input voltage falls below a configured value
- Software and thermostat controlled, the heater is OFF if temperature is above 10 °C
- Heater must be set on with configuration DIP switch 6 (this is the Factory default)
- Smart heater configurable via RS-485 (Modbus) and programming terminals and configuration software on a computer. Refer to manual for details.
- Settable threshold voltage in which the heater will be disabled. The voltage is set slightly below battery's charging voltage. The charging voltage depends on the types of battery and charger. Recommendation: Set the heater threshold voltage 1V below battery charging voltage (with 24V battery)

Example: 24V battery, battery charging voltage 27.5V, set the threshold voltage to 26.5V

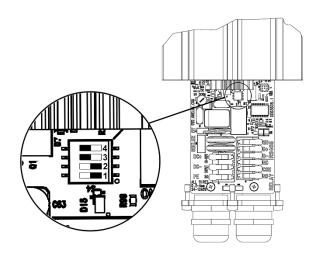
- Heater off during battery discharge enables longer power on time for the light
- Factory setting: Heater is in use, Smart heater is not in use

Battery deep discharge protection (DDP) (DC models only)

DDP protects the battery from over-discharge by limiting the battery terminal voltage from dropping below a value that might cause damage or degradation to the battery. This way, no external deep discharge protection is needed. A typical application for battery-powered lights is cranes.

	DIP s	witch		Battery	Voltage level
1	2	3	4		(light off)
off	off	off	off	12V	Power off
off	off	off	on	12V	10.84V
off	off	on	off	12V	10.4V
off	off	on	on	12V	10.08V *
off	on	off	off	24V	Power off
off	on	off	on	24V	22.02V
off	on	on	off	24V	21.18V
off	on	on	on	24V	20.38V
on	off	off	off	48V	Power off
on	off	off	on	48V	44.3V
on	off	on	off	48V	42.55V
on	off	on	on	48V	40.9V
on	on	off	off	Reserved	
on	on	off	on	Reserved	
on	on	on	off	Reserved	
on	on	on	on	Reserved	

* Factory setting = lowest operating voltage



DDP switches (switches in factory default setting (off, off, on, on))



The table lists voltage levels where the light turns off if the sensed voltage at the light's input drops below this level. Lower voltage settings allow the use of longer cables (more voltage drop) or longer operation time at the expense of a more discharged battery.

Use settings highlighted in yellow for maximum battery protection.

If more battery utilization is needed, use the formula below.

Formula to calculate DC voltage drop in cable: $\Delta V = rac{2\ell RI}{1000}$, where

I = Current in amperes

Light's current can be calculated from Product Code tables by formula I = P/U, where

P = light's power consumption in watts

U = battery voltage in volts

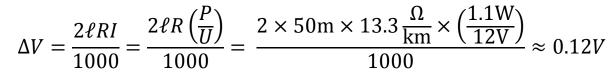
 ℓ = Cable length in meters

R = Cable resistance in ohm/km

Conductor resistance of copper:

1.50 mm² - 13.3 ohm/km 2.50 mm² - 7.98 ohm/km

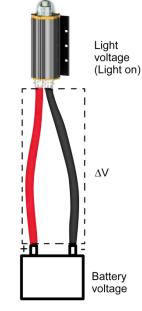
Example. LI-DC-32-A (1.1W), 50m cable, 1.5 mm² wire cross section area, 12V battery



DIP switches				Light voltage (DDP voltage level)	Battery voltage
1	2	3	4		(approximate values)
off	off	off	off	POWER OFF	POWER OFF
off	off	off	on	10.84V	10.96V
off	off	on	off	10.4V	10.52V
off	off	on	on	10.08V	10.2V

Voltages at light and battery of the example at light turn off point.

Alternatively, the voltages directly at the battery +/- terminals and the light input +/- terminals can be measured and the difference calculated. The light must be on when measurements are taken.





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April 2, 2024

Low-intensity Red and IR Obstruction Lights

 CHS Controls AB

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 Fax +46 42 38 61 29

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ICAO Low-intensity Type A 10cd, Type B 32cd and Type E 32cd Low-intensity 50cd FAA L-810 Infrared 850nm

Kutomotie 6 B, 00380 Helsinki FINLAND | The information in this document is subject to change without notice. © Obelux Oy 2024

Indicator LEDs

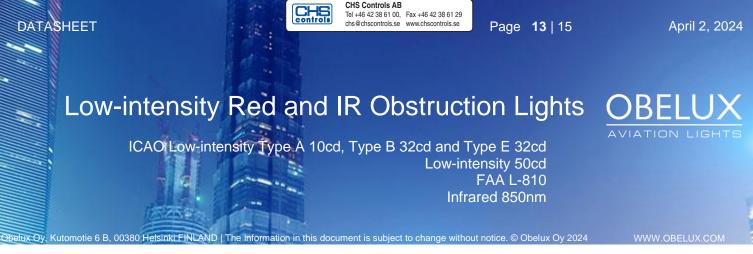
	LED	Description			
1	ALARM	Alarm indicator (RED)			
		LED OFF: Normal operation, no alarms			
		LED ON: Active alarm condition			
2	GPS	GPS (GREEN)			
		LED OFF: No GPS fix			
		LED FLASHING: Lights GPS module has malfunction. Light			
		is not synchronized.			
		LED ON: Lights GPS module has fully resolved the UTC			
		time. It may take several minutes for the GPS module to			
		receive the necessary data.			
3	COM	Communication (GREEN)			
		LED OFF: Waiting for external signals			
		LED FLASHING: Master-slave communications occurring on			
		the network			
4	3V3	Internal operating voltage (GREEN)			
		LED OFF: power off			
		LED ON: power on			



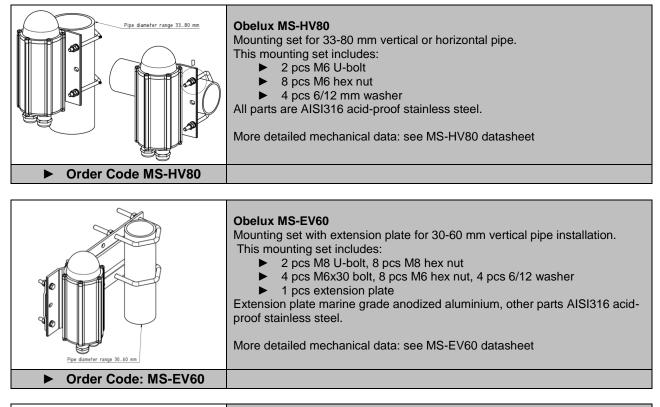


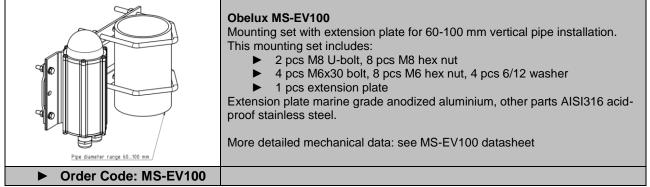
Part codes

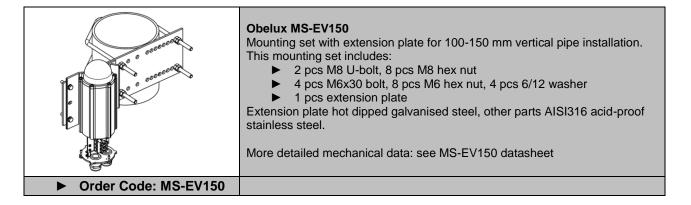
Code	Information
CONFIG01-RXTX	configuration RS-232 cable
	Cable usages: special flash settings, photocell threshold,
	Smart heater and Master – Slave functionality through
	programming terminal
CONFIG01-RS-485	configuration RS-485 cable (Modbus)
	Cable usages: special flash settings, photocell threshold,
	Smart heater and Master – Slave functionality



Mounting sets









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April 2, 2024

Low-intensity Red and IR Obstruction Lights (

CHS

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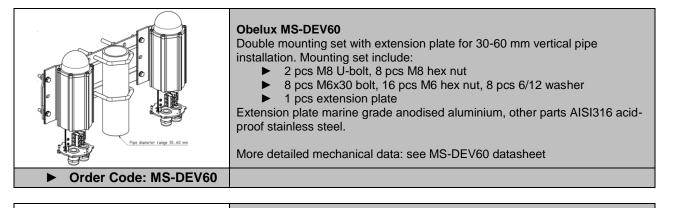
Tel +46 42 38 61 00, Fax +46 42 38 61 29

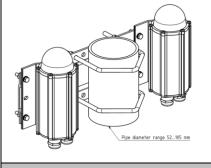
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ICAO Low-intensity Type A 10cd, Type B 32cd and Type E 32cd Low-intensity 50cd FAA L-810 Infrared 850nm

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Obelux MS-DEV100

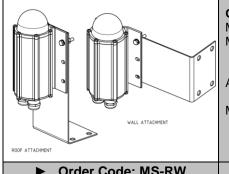
Double mounting set with extension plate for 60-100 mm vertical pipe installation. Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 8 pcs M6x30 bolt, 16 pcs M6 hex nut, 8 pcs 6/12 washer 1 pcs extension plate

Extension plate marine grade anodised aluminium, other parts AISI316 acidproof stainless steel.

More detailed mechanical data: see MS-DEV100 datasheet

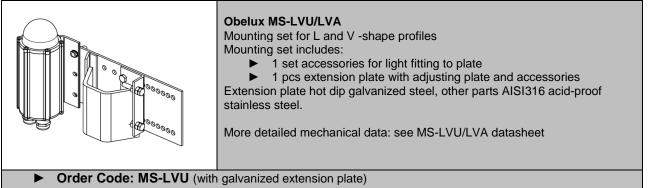
Order Code: MS-DEV100



Obelux MS-RW

Mounting set for horizontal plate or wall installation. Mounting set includes: 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer 1 pcs L-shape 2 mm plate All parts AISI 316 acid-proof stainless steel. More detailed mechanical data: see MS-RW datasheet

Order Code: MS-RW



Order Code: MS-LVA (with AISI316 extension plate)



Low-intensity Red and IR Obstruction Lights

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Order Code: MS-WT5

Order Code: MS-WT5A

	Obelux MS-N1B Mounting set for 1" NPT at bottom. Mounting set includes pre-installed bottom plate to light. More detailed mechanical data: see MS-N1B datasheet.
Order Code: MS-N1B	
	Obelux MS-WT1/5 Mounting set for wind turbines. Mounting set for horizontal plane. Mounting set includes bracket and fasteners. Mounting bracket AISI 304 stainless steel or AISI 316 acid-proof steel, other parts AISI 316 acid-proof steel. More detailed mechanical data: see MS-WT1/5 datasheet.
► Order Code: MS-WT1	(Ø15,5 mm holes, AISI 304 stainless steel bracket)

(Ø17,0 mm holes, AISI 316 acid proof steel bracket)

(Ø17,0 mm holes, AISI 304 stainless steel bracket)