February 15, 2022

Low-intensity Red and IR Obstruction Lights

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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Optical characteristics

- 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 detection

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)







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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 serial lines. _____

Key Features

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

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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
- MS-WT5

Optional Controllers

- ► CP Series
- CP-M1 Series



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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 consumption	IR	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS										
LI-AC-10-A	Туре А	10cd	100-250VAC	1.0VA	No	Yes	No	No	Yes	Yes
LI-AC-10-AM	Туре А	10cd	100-250VAC	1.2VA	No	Yes	Yes	No	Yes	Yes
LI-AC-10-GAM	Type A	10cd	100-250VAC	1.2VA	No	Yes	Yes	Yes	Yes	Yes
LI-AC-10-IR-A	Type A	10cd+IR	100-250VAC	1.3VA	Yes	Yes	No	No	Yes	Yes
LI-AC-10-IR-AM	Type A	10cd+IR	100-250VAC	1.3VA	Yes	Yes	Yes	No	Yes	Yes
LI-AC-10-IR-GAM	Туре А	10cd+IR	100-250VAC	1.5VA	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS										
LI-DC-10-A	Туре А	10cd	10-60VDC	0.8W	No	Yes	No	No	Yes	Yes
LI-DC-10-AM	Туре А	10cd	10-60VDC	0.8W	No	Yes	Yes	No	Yes	Yes
LI-DC-10-GAM	Туре А	10cd	10-60VDC	1.0W	No	Yes	Yes	Yes	Yes	Yes
LI-DC-10-IR-A	Туре А	10cd+IR	10-60VDC	1.1W	Yes	Yes	No	No	Yes	Yes
LI-DC-10-IR-AM	Type A	10cd+IR	10-60VDC	1.1W	Yes	Yes	Yes	No	Yes	Yes
LI-DC-10-IR-GAM	Туре А	10cd+IR	10-60VDC	1.3W	Yes	Yes	Yes	Yes	Yes	Yes

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

Order code	ICAO / FAA	Output	Operating voltage	Power consumption	IR	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS										
LI-AC-32-A	Type B/E, L-810/F	32cd	100-250VAC	2.0VA	No	Yes	No	No	Yes	Yes
LI-AC-32-AM	Type B/E, L-810/F	32cd	100-250VAC	2.0VA	No	Yes	Yes	No	Yes	Yes
LI-AC-32-GAM	Type B/E, L-810/F	32cd	100-250VAC	2.2VA	No	Yes	Yes	Yes	Yes	Yes
LI-AC-32-IR-A	Type B/E, L-810/F	32cd+IR	100-250VAC	2.3VA	Yes	Yes	No	No	Yes	Yes
LI-AC-32-IR-AM	Type B/E, L-810/F	32cd+IR	100-250VAC	2.3VA	Yes	Yes	Yes	No	Yes	Yes
LI-AC-32-IR-GAM	Type B/E, L-810/F	32cd+IR	100-250VAC	2.5VA	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS										
LI-DC-32-A	Type B/E, L-810/F	32cd	10-60VDC	1.8W	No	Yes	No	No	Yes	Yes
LI-DC-32-AM	Type B/E, L-810/F	32cd	10-60VDC	1.8W	No	Yes	Yes	No	Yes	Yes
LI-DC-32-GAM	Type B/E, L-810/F	32cd	10-60VDC	2.0W	No	Yes	Yes	Yes	Yes	Yes
LI-DC-32-IR-A	Type B/E, L-810/F	32cd+IR	10-60VDC	2.1W	Yes	Yes	No	No	Yes	Yes
LI-DC-32-IR-AM	Type B/E, L-810/F	32cd+IR	10-60VDC	2.1W	Yes	Yes	Yes	No	Yes	Yes
LI-DC-32-IR-GAM	Type B/E, L-810/F	32cd+IR	10-60VDC	2.3W	Yes	Yes	Yes	Yes	Yes	Yes

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Low intensity 50cd red + Infrared (IR)

Order code	ICAO / FAA	Output	Operating voltage	Power consumption	IR	Alarm relay	Modbus	GPS sync	Fault monitoring	Heater
AC MODELS										
LI-AC-50-A	-	50cd	100-250VAC	4VA	No	Yes	No	No	Yes	Yes
LI-AC-50-AM	-	50cd	100-250VAC	4VA	No	Yes	Yes	No	Yes	Yes
LI-AC-50-GAM	-	50cd	100-250VAC	4.2VA	No	Yes	Yes	Yes	Yes	Yes
LI-AC-50-IR-A	-	50cd+IR	100-250VAC	4.3VA	Yes	Yes	No	No	Yes	Yes
LI-AC-50-IR-AM	-	50cd+IR	100-250VAC	4.3VA	Yes	Yes	Yes	No	Yes	Yes
LI-AC-50-IR-GAM	-	50cd+IR	100-250VAC	4.5VA	Yes	Yes	Yes	Yes	Yes	Yes
DC MODELS										
LI-DC-50-A	-	50cd	10-60VDC	3.6W	No	Yes	No	No	Yes	Yes
LI-DC-50-AM	-	50cd	10-60VDC	3.6W	No	Yes	Yes	No	Yes	Yes
LI-DC-50-GAM	-	50cd	10-60VDC	3.8W	No	Yes	Yes	Yes	Yes	Yes
LI-DC-50-IR-A	-	50cd+IR	10-60VDC	3.9W	Yes	Yes	No	No	Yes	Yes
LI-DC-50-IR-AM	-	50cd+IR	10-60VDC	3.9W	Yes	Yes	Yes	No	Yes	Yes
LI-DC-50-IR-GAM	-	50cd+IR	10-60VDC	4.1W	Yes	Yes	Yes	Yes	Yes	Yes

IR only

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

X: IR power (mWSR)

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: 280x130x100, 1.5kg

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VIATION LIGH

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Installation instructions

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 cable 3x1.5 mm² or 3x2.5 mm²

Open the three back plate screws. 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 unit. 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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AC models

DC models

Dower input

Mark	Description	Information
L	Live	Connect to power supply live terminal
Ν	Neutral	Connect to power supply neutral terminal
PE	Ground	Protective earth

Mark	Description	n 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-	Data-	RS-485 inverting pin
SH	Shield	Cable shield connection
4 RS	-485 terminat	tion DIP switch
5 Co	onfiguration D	IP switches
6 Pr	ogramming te	erminal
	.	

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



Back plate screws



Light unit opened up



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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. Turn off DIP8 for stand-alone operation.

The factory default setting is these switches OFF (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 switch		Photocoll threshold			
1	2				
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 switch		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 DIP5, IR can be set off in lights that have IR. By default, lights that don't have IR have DIP5 OFF.

DIP switch	Infrarad	DIP switch	Hostor **	
5	Innareu	6	пеацег	
off	OFF	off	OFF	
on	ON *	on	ON *	

With DIP7, 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 Master light. Check manual for more details.

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



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In cold climates, the heater prevents moisture build-up and keeps the light head 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.

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Modbus mode (-AM and -GAM models)

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Turn on DIP8 to configure the light into Modbus operation. 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 (DIP7: Master - Slave functionality).

DIP switch			Madhua Addraaa		
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
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	Operating mode	DIP sv
8	Operating mode	6
off	Standalone	
on	Modbus	

	DIP s	witch	
	6	7	Reserved

The RS-485 bus should be terminated with the on-board 120 ohm resistors on both ends of the communications bus. To terminate the RS-485 bus, switch the RS-485 termination DIP switch to the ON position in these devices.

Programming terminal

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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. Software in the computer establishes a connection to the light and makes the updates.

DC models features on battery power

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
- 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: Smart heater not in use

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

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

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

* Factory setting = lowest operating voltage

Operation of DDP switches

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.

The table above lists voltage levels where the light unit 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



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U = battery voltage in volts

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 ℓ = Cable length in meters

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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 (1.8W), 50m cable 1.5 mm², 12V battery



DIP switches				Light voltage (DDP voltage level)	Battery voltage
1	2	3	4		
off	off	off	off	OFF	OFF
off	off	off	on	10.84V	11.04V
off	off	on	off	10.4V	10.6V
off	off	on	on	10.08V	10.28V

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.

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: Light GPS module has fix on GPS place	
		and time. Light is not yet fully synchronized.	
		LED ON: Light 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	







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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



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Low-intensity Red and IR Obstruction Lights OBE

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Mounting Sets









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