

LIT Low-Intensity Tower Light Series

ICAO Low-intensity Type A 10 cd
ICAO Low-intensity Type B and Type E 32 cd
Low-intensity 50 cd
Low-intensity 70 cd

OBELUX
AVIATION LIGHTS

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Optical characteristics

- ▶ 10 cd Type A
- ▶ 32 cd Type B fixed
- ▶ 32 cd Type E flashing
- ▶ 50 cd for the Netherlands
- ▶ Colour aviation RED
- ▶ NVG compliant infrared (850nm)
- ▶ According to ICAO Standards and Recommended Practices

Specifications met

ICAO International Standards and Recommended Practices:
Aerodromes Annex 14 Volume 1,
8th Edition, July 2018, Chapter 6:
Low-intensity Type A/B/E. Chapter 6.2.4 Wind turbines

FAA Advisory Circular
AC 150/5345-43J:
Specification for Obstruction Lighting
Equipment, 3/11/2019
FAA L-810, L-810(F)

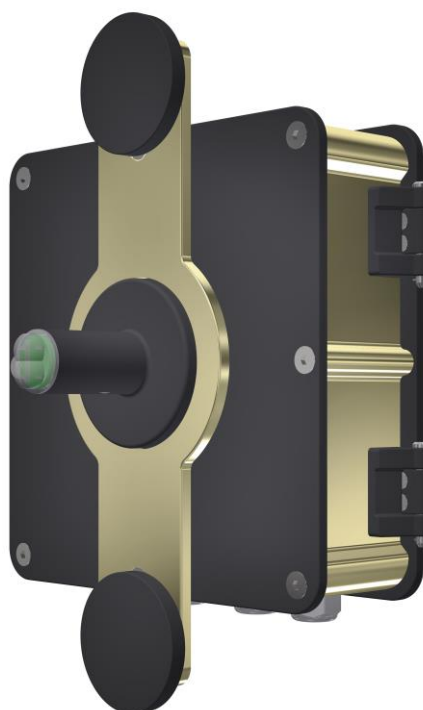
Allgemeine Verwaltungsvorschrift zur
Kennzeichnung von
Luftfahrthindernissen vom 24.04.2020
(GERMANY)

Finnish Civil Aviation Authority,
Traficom (FINLAND)

Transportstyrelsen TSFS 2020:88
(SWEDEN)

Luftfartstilsynet FOR-2014-07-15-980
(NORWAY)

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



LIT Low-Intensity Tower Light series

LED Aviation Obstruction Lights

LIT series is Obelux's unique design to mark intermediary levels on wind turbines. The light is installed from inside the tower through extremely small hole. All maintenance and replacement work can be done from inside the tower which allows savings in case of maintenance or repair is needed.

Key Features

- ▶ Based on LED technology
- ▶ Suitable for Offshore environment
- ▶ "Through-the-wall" tower marking solution, i.e. pin light
- ▶ Supports both stand-alone and RS-485 Modbus operations
- ▶ Built-in photocell
- ▶ Built-in fault monitoring
- ▶ Can also be controlled with voltage signals
- ▶ Design lifetime more than 20 years
- ▶ 5-year warranty
- ▶ Option for 10-year warranty, the longest in the industry

Electrical Characteristics

- ▶ AC models: Nominal 115 or 230 V_{AC}, 50 Hz / 60 Hz ± 6 %
- ▶ DC models: DC voltage range: 10 - 60 V_{DC}
- ▶ Rated current: ≤ 1 A
- ▶ Built-in overvoltage protection.
- ▶ Power consumption starting from 1,5 W upwards
- ▶ Alarm relay in all versions. Dry Contact 250 V_{AC} (8 A) or 60 V_{DC} (0,75 A)
- ▶ RS-485 Modbus (isolated) communication versions available
- ▶ Lights can be daisy-chained (both power and data)
- ▶ Overvoltage Protection level: Class III – IEC 61643-11
- ▶ Control voltage signal option: 5-55 V_{DC} for IR and/or RED

Mechanical Characteristics

- ▶ Pin sizes:
 - **Ø18 mm**: ordering code example LIT10-AC230-xx**C** (where xx = tube length)
 - **Ø30 mm**: ordering code example LIT10-AC230-xx**D** (where xx = tube length)
 - Various tube lengths available on request
- ▶ Operating temperature range -40...+55 °C
- ▶ IP66 protection degree
- ▶ Marine-grade aluminum
- ▶ Rubber (EPDM) sealing between Tower light and the wall structure.
- ▶ Spirit level inside to assist mounting
- ▶ Mechanical impact resistance IK05 (according to IEC 62262)
- ▶ Weight 3,8 Kg

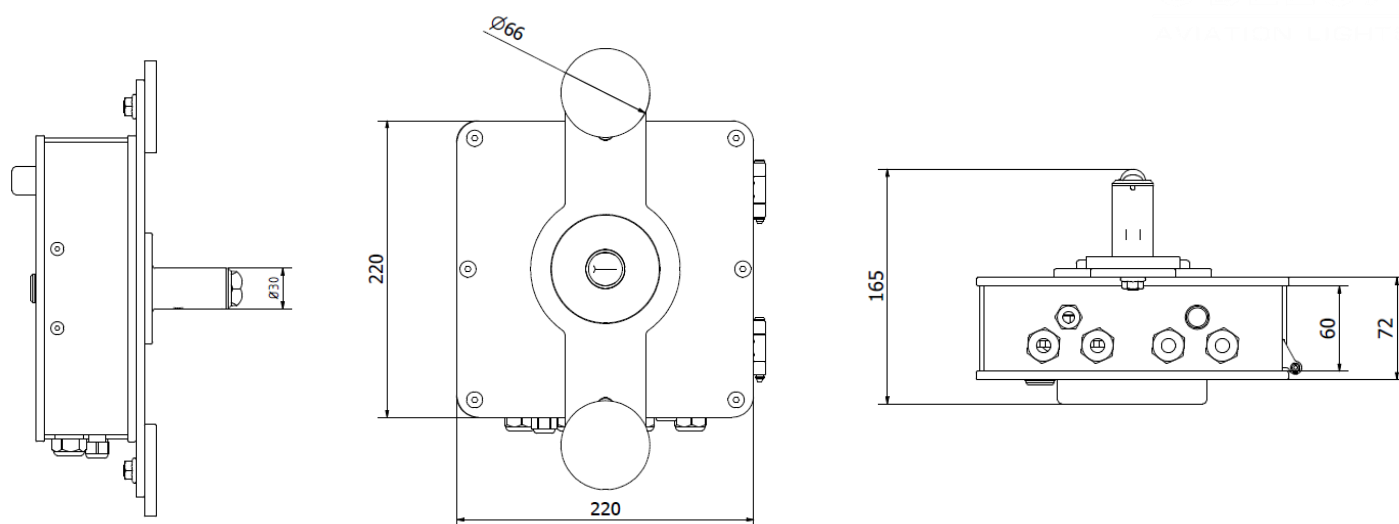
Order code	Output	Specification	Operating voltage	Power consumption	Infrared	Tube diameter	Alarm Relay	RS-485 Modbus	Control Signal	Photocell
LIT10-AC230-xxC-y-z	10 cd	Type A	230 V _{AC}	2,4 W	No	Ø18 mm	Yes	Option	Option	Option
LIT10-AC230-xxD-y-z	10 cd	Type A	230 V _{AC}	2,4 W	No	Ø30 mm	Yes	Option	Option	Option
LIT10-AC230-IR-xxD-y-z	10 cd	Type A	230 V _{AC}	2,6 W	Yes	Ø30 mm	Yes	Option	Option	Option
LIT10-DC-xxC-y-z	10 cd	Type A	10-60 V _{DC}	1,5 W	No	Ø18 mm	Yes	Option	Option	Option
LIT10-DC-xxD-y-z	10 cd	Type A	10-60 V _{DC}	1,5 W	No	Ø30 mm	Yes	Option	Option	Option
LIT10-DC-IR-xxD-y-z	10 cd	Type A	10-60 V _{DC}	1,7 W	Yes	Ø30 mm	Yes	Option	Option	Option
LIT32-AC230-xxC-y-z	32 cd	Type B/E	230 V _{AC}	3,5 W	No	Ø18 mm	Yes	Option	Option	Option
LIT32-AC230-xxD-y-z	32 cd	Type B/E	230 V _{AC}	3,5 W	No	Ø30 mm	Yes	Option	Option	Option
LIT32-AC230-IR-xxD-y-z	32 cd	Type B/E	230 V _{AC}	3,7 W	Yes	Ø30 mm	Yes	Option	Option	Option
LIT32-DC-xxC-y-z	32 cd	Type B/E	10-60 V _{DC}	2,6 W	No	Ø18 mm	Yes	Option	Option	Option
LIT32-DC-xxD-y-z	32 cd	Type B/E	10-60 V _{DC}	2,6 W	No	Ø30 mm	Yes	Option	Option	Option
LIT32-DC-IR-xxD-y-z	32 cd	Type B/E	10-60 V _{DC}	2,8 W	Yes	Ø30 mm	Yes	Option	Option	Option
LIT50-AC230-xxC-y-z	50 cd	-	230 V _{AC}	-	No	Ø18 mm	Yes	Option	Option	Option
LIT50-AC230-xxD-y-z	50 cd	-	230 V _{AC}	-	No	Ø30 mm	Yes	Option	Option	Option
LIT50-AC230-IR-xxD-y-z	50 cd	-	230 V _{AC}	-	Yes	Ø30 mm	Yes	Option	Option	Option
LIT50-DC-xxC-y-z	50 cd	-	10-60 V _{DC}	-	No	Ø18 mm	Yes	Option	Option	Option
LIT50-DC-xxD-y-z	50 cd	-	10-60 V _{DC}	-	No	Ø30 mm	Yes	Option	Option	Option
LIT50-DC-IR-xxD-y-z	50 cd	-	10-60 V _{DC}	-	Yes	Ø30 mm	Yes	Option	Option	Option
LIT70-AC230-xxD-y-z	70 cd	-	230 V _{AC}	-	No	Ø30 mm	Yes	Option	Option	Option
LIT70-AC230-IR-xxD-y-z	70 cd	-	230 V _{AC}	-	Yes	Ø30 mm	Yes	Option	Option	Option
LIT70-DC-xxD-y-z	70 cd	-	10-60 V _{DC}	-	No	Ø30 mm	Yes	Option	Option	Option
LIT70-DC-IR-xxD-y-z	70 cd	-	10-60 V _{DC}	-	Yes	Ø30 mm	Yes	Option	Option	Option

xx = tube length y = options z = mounting variant

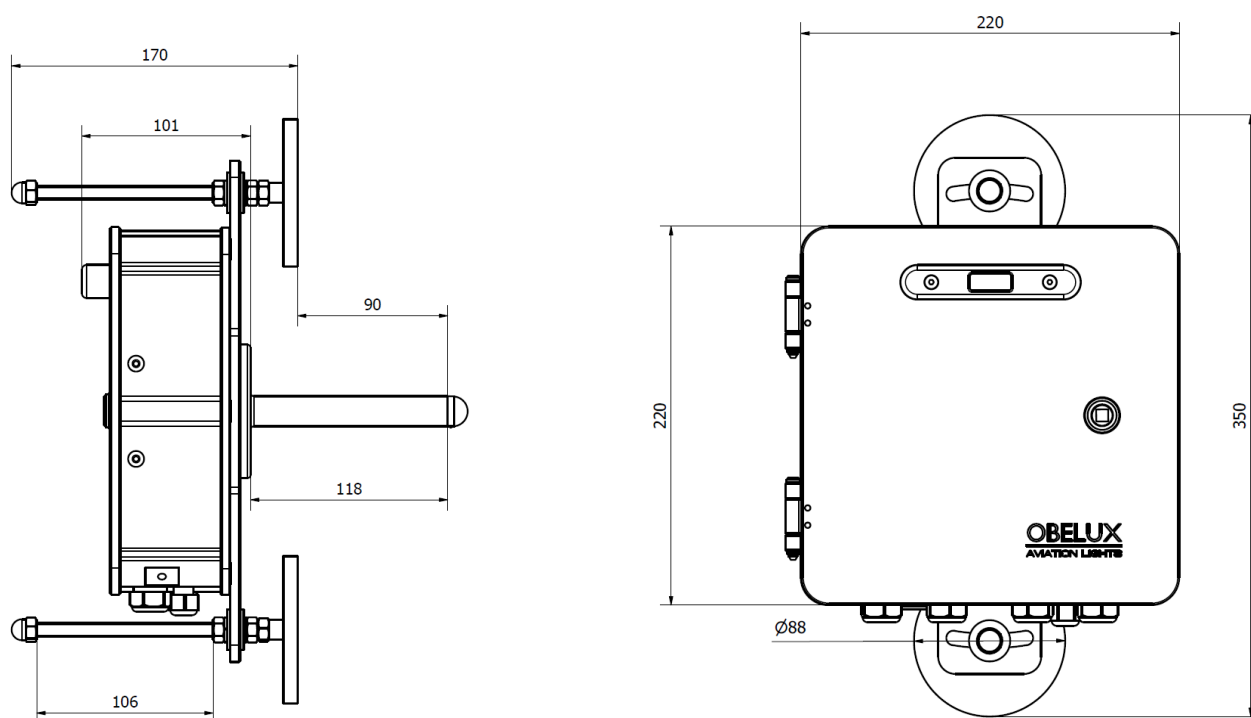
Also available with **115 V_{AC}** (change in code: AC230 -> AC115)

Ordering code examples:										
	Light Output (cd)	Operating Voltage	IR Option	Tube Length in mm (xx)	Tube Diameter in mm	Options (y)	Mounting Variant (z)	Optional Warranty		
LIT	10	- AC115	- = no IR	50	C = 18	- = no options	- = normal variant	- = normal warranty		
	32	AC230	IR = IR	118	D = 30 (*)	M = RS-485 Modbus	SG1 = adjustable installation depth	10 = 10-year warranty		
	50	DC				C = Control Signal				
	70					P = Photocell				
LIT	10	- AC230	- IR	50	D	- MP	- SG1	- 10		
LIT	32	- AC115		118	C	- C		- 10		
LIT	50	- DC		50	D					

* If IR option (infrared) is selected, the tube diameter must always be 30 mm (D)



1. Normal variant (magnet mounting)



2. SG1-variant (magnet mounting with 0-106 mm adjustable installation depth)