

Accessories

ACCESSORIES FOR INSTALLATION

The lighting of obstacles to aircraft is a security element that installation procedures must include. The range of products proposed by OBSTA has been designed for wiring and monitoring a group of obstruction lights.

Application

Those boxes have to be installed at the bottom of the obstacles or just near the obstruction lights. Advantages : good resistance to mechanical shocks, resistant to hard climatic environment, protection against electromagnetic fields.

OBSTA monitoring box has been designed for the installation of obstruction lights for aircraft obstacles (building, chimneys, cranes, towers and many more...). They have been designed mainly for low intensity lights as defined in ICAO recommendations and FAA standards.

1/ The junction box P/N 13140 can be used with any OBSTA lights and any voltage (12V, 24V, 48V, 120V and 230VAC). This metallic box does have 4 entries of cable and allows to :

- connect 1 up to 3 lights working simultaneously,
- or connect 2 lights in redundancy,
- connect a photocell,
- send back alarm information.

The junction box P/N 13141 does the same except if it is used in combination with monitoring box.

2/ OBSTA monitoring boxes are installed at the bottom of obstacle and they display :

- if power supply is on
- the status of the lights
- the defect (if there are) of the main lights and the back-up lights.

They also allow to

- send back alarm relay in case of light failure and power failure in option,
- test the photocell,
- test the lights.

OBSTA monitoring boxes P/N 13142, 13143 and 13144 can be used respectively with any OBSTA low intensity 230 VAC, 48VDC and 24VDC. The monitoring box P/N 13147 is used with medium intensity and low intensity only.

3/ The alarm boxes P/N 13145 and 13144 can be used with 1 or 2 OBSTA STI 48V and 24V only.

They allow to send back alarm relay in case of lamp failure.

Description

This range of products is made in molded and painted aluminum boxes. Entry of cables is made with nickel-plated brass. Inside the box, cable connectors fix all the wires.

This concept allows :

- Easy attachment on vertical panel
- Easy wiring of cables
- Easy junction to external device for the remote monitoring.
- Excellent watertightness of the system (IP65)
- Good resistance to strong climatic conditions
- Operation in strong electromagnetic fields

For monitoring option, luminous display and interrupters are waterproof. They display :

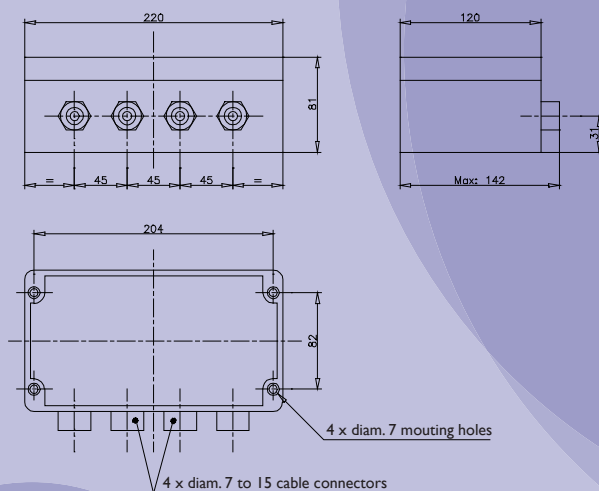
- Power supply on
- The status of the lights
- The defect (if there is) of the main lights or of the back-up lights
- Automatic or manual operation mode



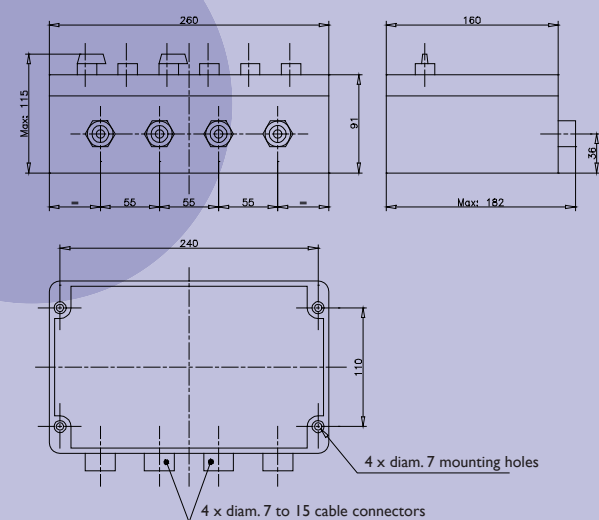
Complementary Characteristics

Overall dimensions (in mm)

- Drawing A



- Drawing B



IP degree	65
Cable entries quantity	4
Cable diameter	from 8 to 15 mm
Wire cross section	from 1 to 4 mm ²
Attachment	by 4 x M5 screws
Weight	drawing A : 1,9 kg drawing B : 2,8 kg

P/Number	Voltage	Drawing	Weight	Photo-cell	Display	Back up	Remote control	Nber of lights
13140	N/A	A	1,8	yes	no	yes	no	1 to 3
13141	N/A	A	1,8	Used with 13142, 13143 or 13144				2
13142	230 VAC	B	2,8	yes	yes	yes	yes	< 7
13143	48 VDC	B	2,8	yes	yes	yes	yes	< 7
13144	24 VDC	B	2,8	yes	yes	yes	yes	< 7
13147	230V / 24V	B	2,8	yes	yes	yes	yes	
13145	48 VDC	A	1,9	no	no	yes	yes	2
13146	24 VDC	A	1,9	no	no	yes	yes	2

for exact drawing, please contact us.