

Over Voltage Protection Junction Box

For Obelux LED Aviation Obstruction Lights

OBELUX
AVIATION LIGHTS

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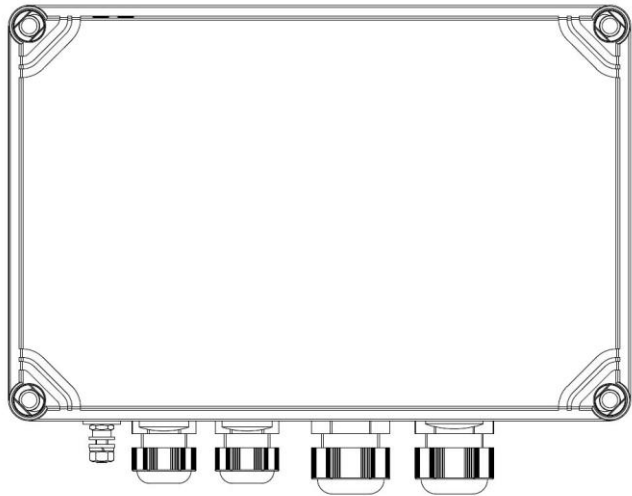
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Mechanical characteristics

- **Enclosure:**
Shock-resistant polycarbonate (IP65)
Painted steel (RAL 7035, IP65)
- **Enclosure dimensions (WxHxD):**
Polycarbonate 300x200x132 mm
Metal enclosure 300x200x150 mm
- **Weight:**
Polycarbonate <3,5 kg
Metal enclosure <5,3 kg
- **Cable glands:**
4 x M20 (Ø8-14 mm cable)
4 x M25 (Ø9-17 mm cable)
EMC glands in metal enclosures

Electrical characteristics

- **Operating voltage:** 100-240 V_{AC}
- **Surge protection component:**
Raycap Strikesorb 30-B-M
- **Operating temperature range:**
-40 °C ...+55 °C



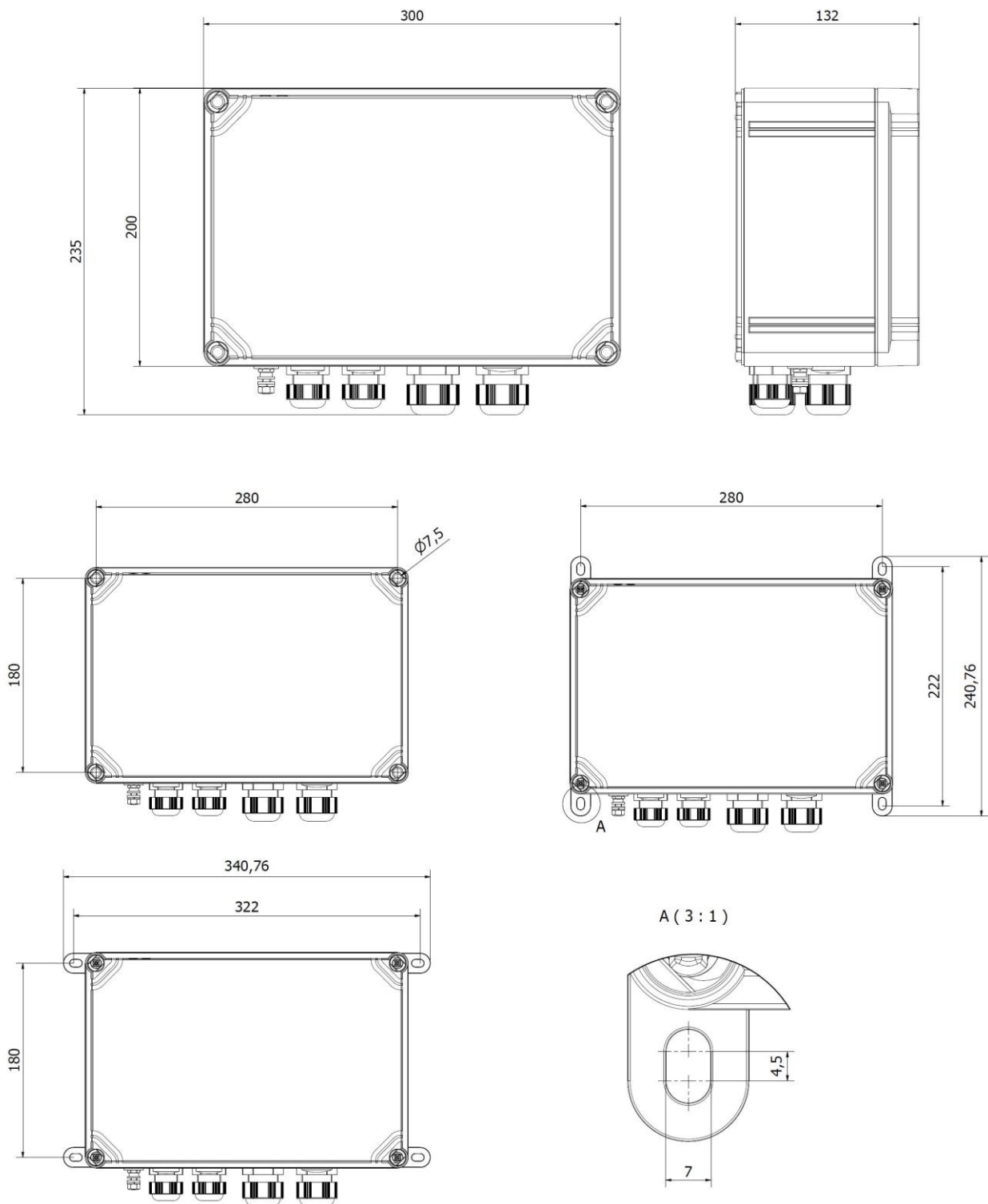
Over Voltage Protection

LED Aviation Obstruction Light Over Voltage Protection

Obelux Over Voltage Protection Junction Box is used for over voltage protection for Obelux light heads. Surge protection is based on the Raycap Strikesorb 30-B-M.

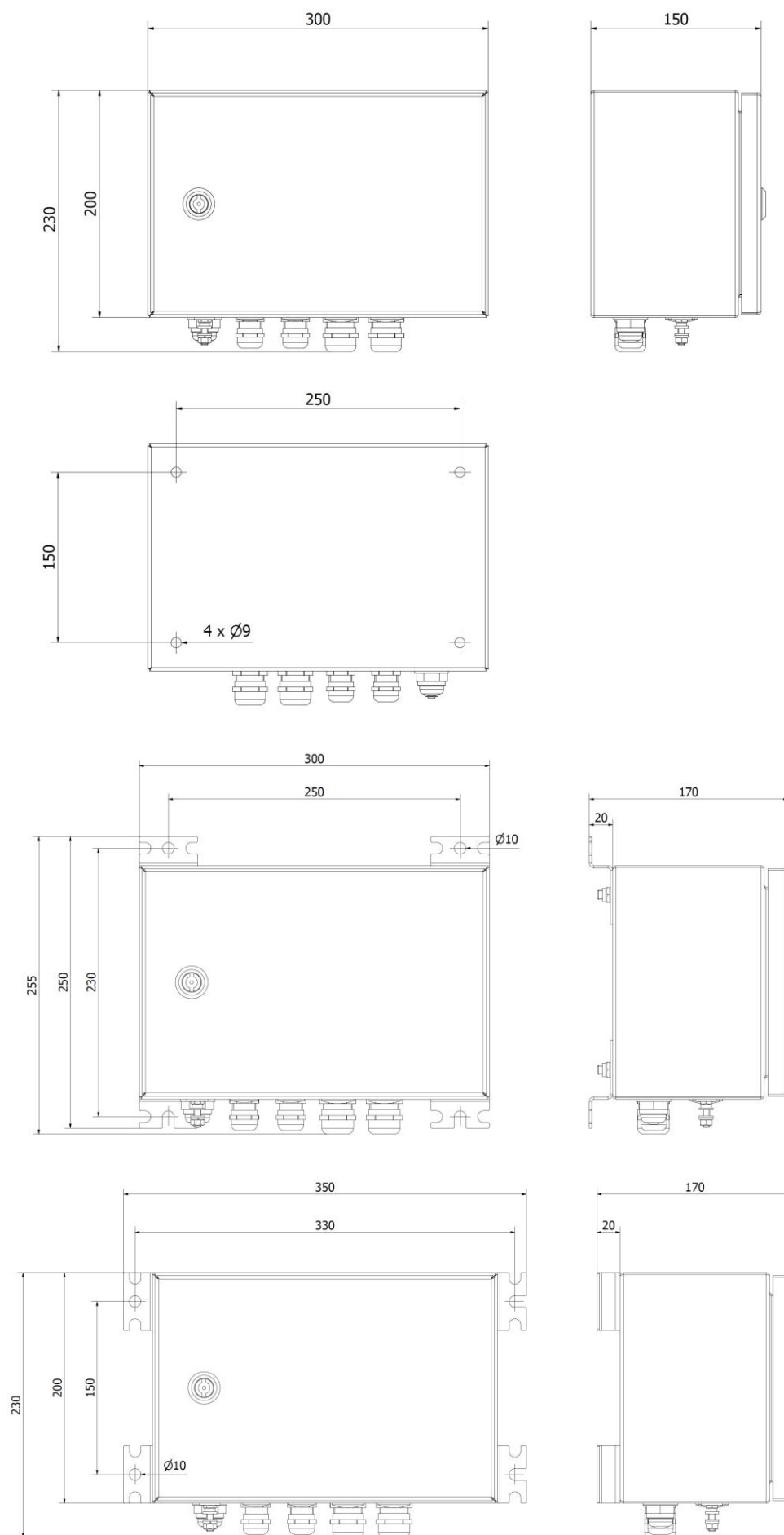
Key Features

- Over voltage protection for Obelux light heads
- Protection component: Raycap Strikesorb 30-B-M
- Two output version can be used to distribute 230 V_{AC} power and fault relay for two light heads
- Long maintenance-free lifetime

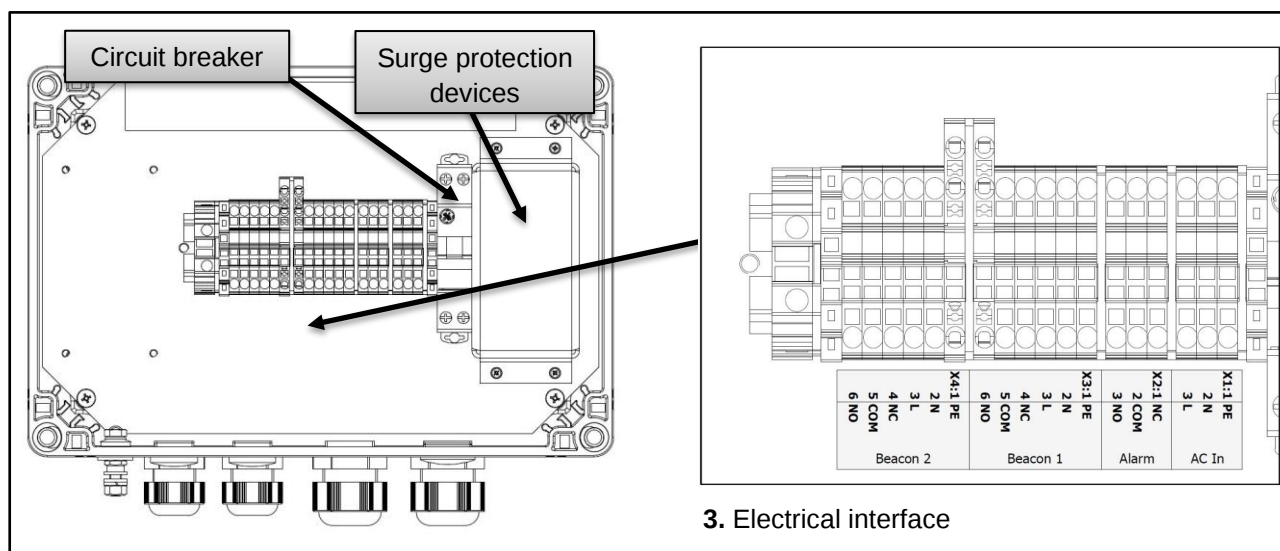


1. Enclosure dimensions (polycarbonate)

Order code:	Operating voltage:	Number of outputs:	Enclosure:	Packing dimensions:
OVP-ACW-1-P	100-240 V _{AC}	1	Polycarbonate	335x265x145 mm, 3,8 kg
OVP-ACW-1-S	100-240 V _{AC}	1	Painted steel	310x310x175 mm, 6,1 kg
OVP-ACW-2-P	100-240 V _{AC}	2	Polycarbonate	335x265x145 mm, 3,8 kg
OVP-ACW-2-S	100-240 V _{AC}	2	Painted steel	310x310x175 mm, 6,1 kg



2. Enclosure dimensions (steel)



1 AC In

Number	Mark	Description	Information
X1:1	PE	Protective earth	PE line is typically indicated with yellow/green colour.
X1:2	N	Neutral terminal	Colour typically blue.
X1:3	L	Live terminal	Colour typically brown.

Connector is push in terminal block.

Conductor cross-section:

0,14 – 2,5 mm² (solid wire max. 4 mm²)

2 Alarm

Number	Mark	Description	Information
X2:1	NC	Normally Connected	During normal operations, connected with COM (Common)
X2:2	COM	Common	Common relay contact
X2:3	NO	Normally Open	In alarm, connected with COM (Common)

Connector is push in terminal block.

Conductor cross-section:

0,14 – 2,5 mm² (solid wire max. 4 mm²)

3 Beacon 1

Number	Mark	Description	Information
X3:1	PE	Protective earth	PE line is typically indicated with yellow/green colour.
X3:2	N	Neutral terminal	Colour typically blue.
X3:3	L	Live terminal	Colour typically brown.
X3:4	NC	Normally Connected	During normal operations, connected with COM (Common)
X3:5	COM	Common	Common relay contact
X3:6	NO	Normally Open	In alarm, connected with COM (Common)

Connector is push in terminal block.

Conductor cross-section:

0,14 – 2,5 mm² (solid wire max. 4 mm²)

4 Beacon 2 (only in 2 output versions)

Number	Mark	Description	Information
X4:1	PE	Protective earth	PE line is typically indicated with yellow/green colour.
X4:2	N	Neutral terminal	Colour typically blue.
X4:3	L	Live terminal	Colour typically brown.
X4:4	NC	Normally Connected	During normal operations, connected with COM (Common)
X4:5	COM	Common	Common relay contact
X4:6	NO	Normally Open	In alarm, connected with COM (Common)

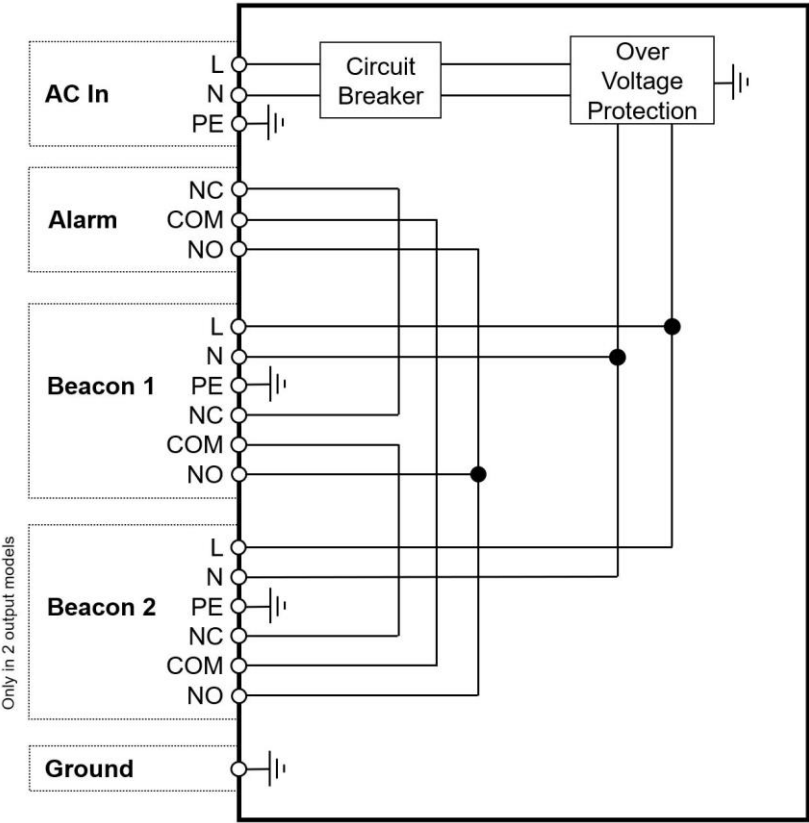
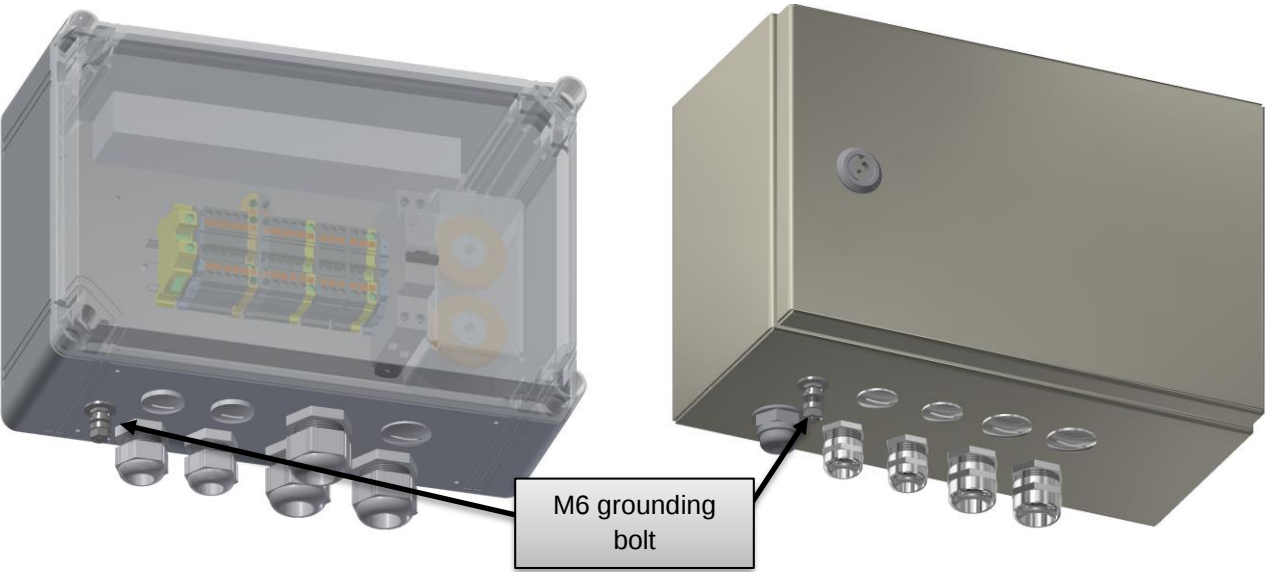
Connector is push in terminal block.

Conductor cross-section:

0,14 – 2,5 mm² (solid wire max. 4 mm²)

5 Ground

There is an M6 grounding bolt at bottom of the enclosure for grounding.



4. Block diagram

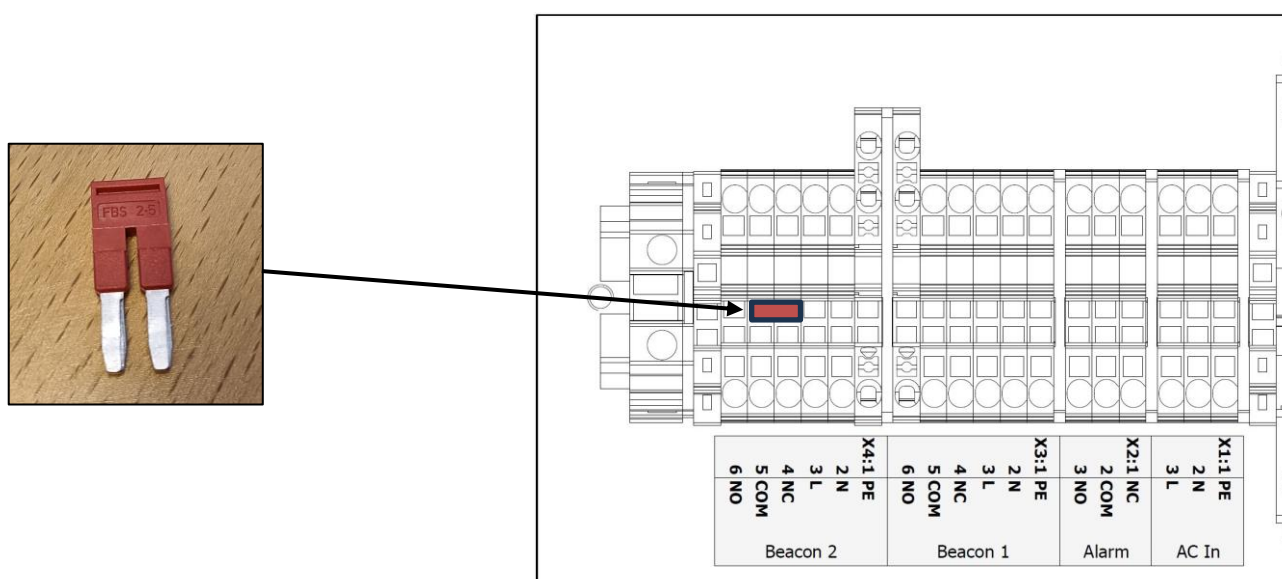
Installation

Mount the device to the selected mounting point using quality made fasteners. When the cover door is open, check that there is no inflow of water (incl. hail and snow) into the enclosure.

Remove the sealing pieces from the needed cable glands and route the cables through them. Leave sealing pieces in the unused glands and tighten them properly.

Make sure that the circuit breaker is in **OFF** position before connecting the cable wires securely to appropriate terminal block connectors.

Models with 2 outputs (OVP-ACW-2-x) can also be used with only one output but in that case the **COM** and **NC** terminals in the unused output must be connected. That can be done by using a bridge supplied with the product.



Switch the circuit breaker to ON position and place the cover properly on its place and securely tighten all four screws on all corners of the cover (polycarbonate versions).