

# AQUA-70-LED

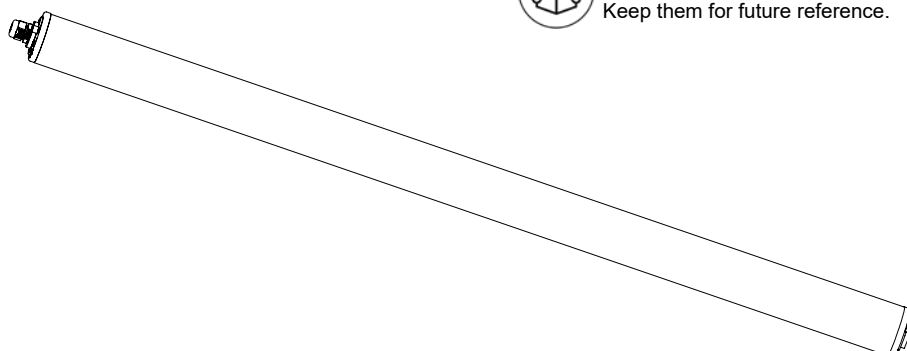
## Technical conditions for mounting luminaire ENG

01.06.2026/ rev.0  
www.vyrtych.cz

IP66/IP67/IP68 15m/IP69, insulation class I

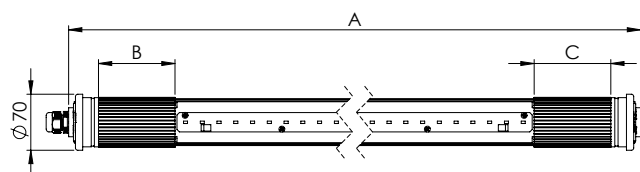


Keep safe and proper usage by following these instructions.  
Keep them for future reference.

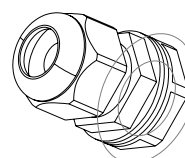


### Luminaire dimensions:

Type	A [mm]	B [mm]	C [mm]
AQUA-70-LED, l= 780 mm	780	95	95
AQUA-70-LED, l= 1270 mm	1270	95	95
AQUA-70-LED, l= 1740 mm	1740	95	95



### Standard equipment:



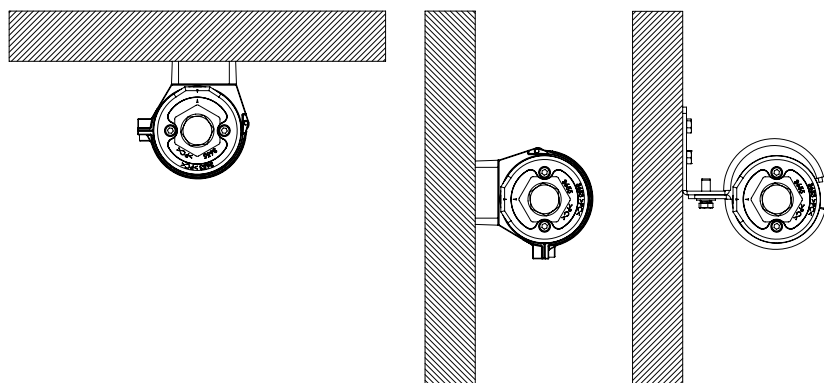
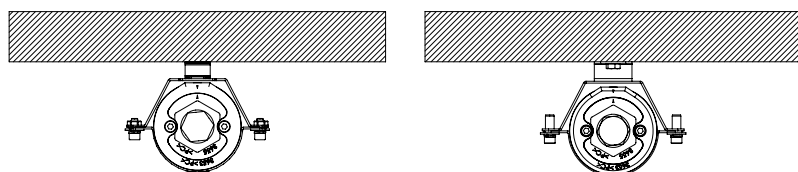
1x plastic  
cable gland M20

The luminaire is normally equipped with 1x openings  $\varnothing$  20 mm. The wall thickness of the luminaire is 6 mm.

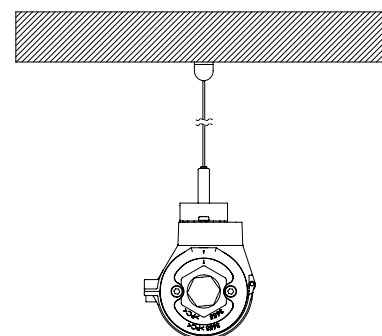
When using your own cable glands, they must comply with the required type of seal, IP protection rating, temperature range (the same as for the glands we supply), and other technical parameters. Always carry out the installation according to the installation instructions provided by the gland manufacturer. In case of any doubts, please contact technical support at: [podpora@vyrtych.cz](mailto:podpora@vyrtych.cz).

### Types of mounting:

With mounting bracket directly to the supporting surface



With cable hanger



**Mounting procedure using mounting brackets directly to the supporting surface:**

1

4190 - Mounting bracket AQUA-70 complete dark (1 pc)  
4191 - Mounting bracket AQUA-70 complete light (1 pc)

2

3

4

5

**Mounting procedure using cable hanger:**

1

3578 - Cable hanger AQUA-70 stainless steel AISI304 (2 pcs)

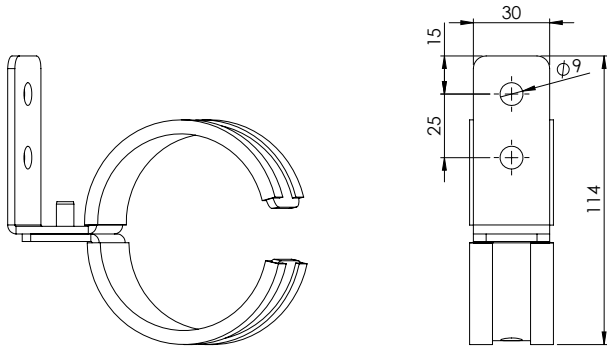
2

3

4

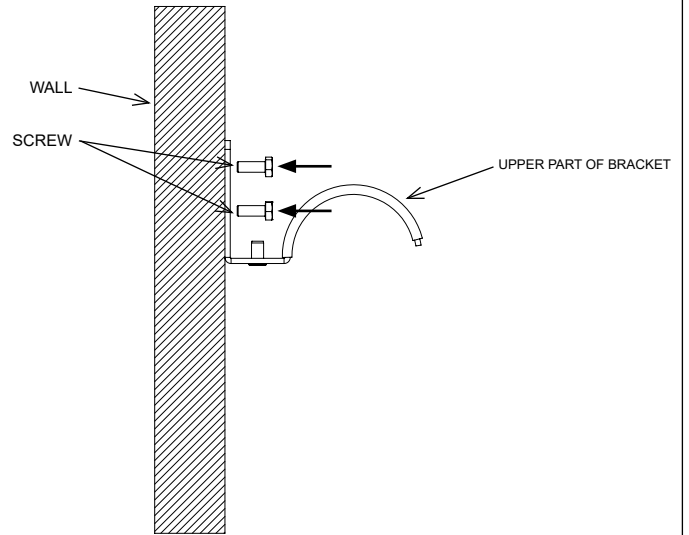
**Mounting procedure using mounting brackets directly to the supporting surface:**

1

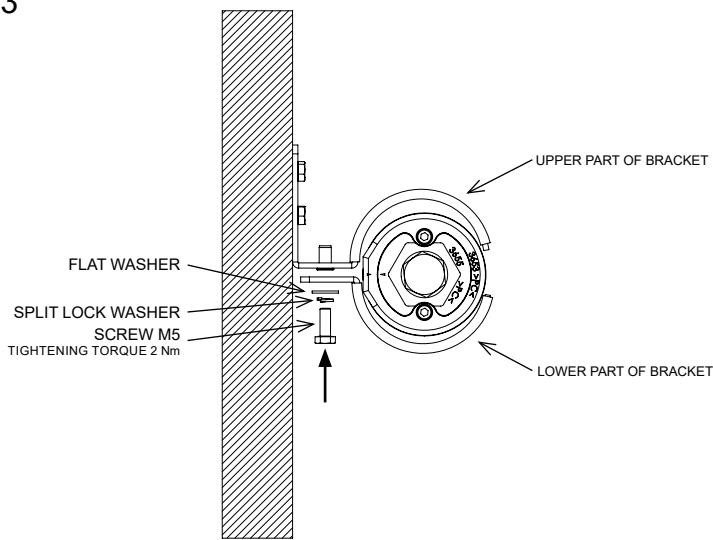


28448 - Mounting bracket AQUA-70 stainless steel complete (1 pc)

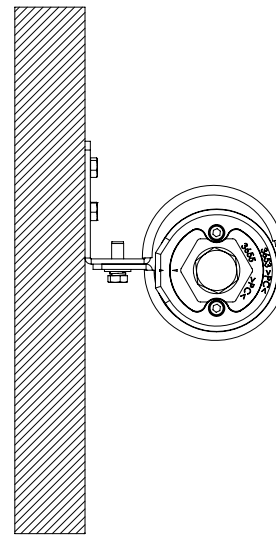
2



3

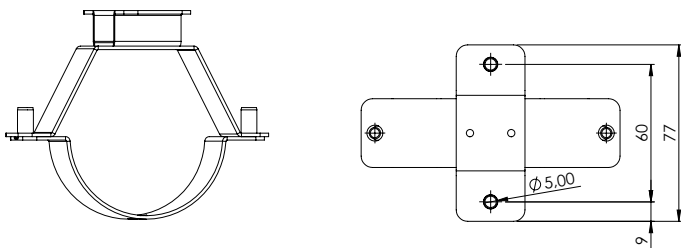


4



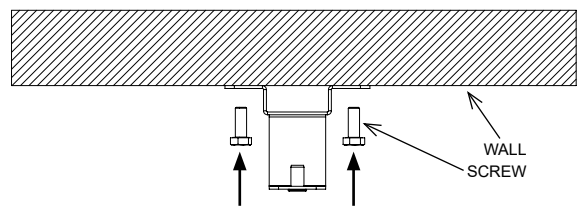
**Mounting procedure using mounting brackets directly to the supporting surface:**

1

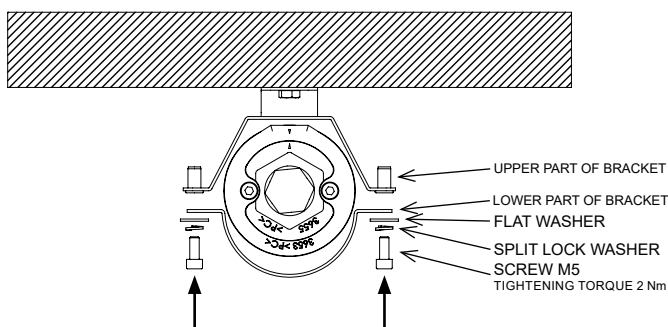


4189 - Mounting bracket AQUA-70 stainless steel complete (1 pc)

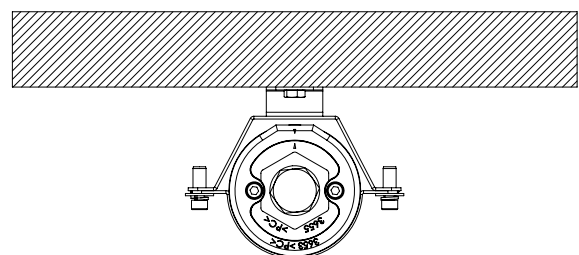
2



3

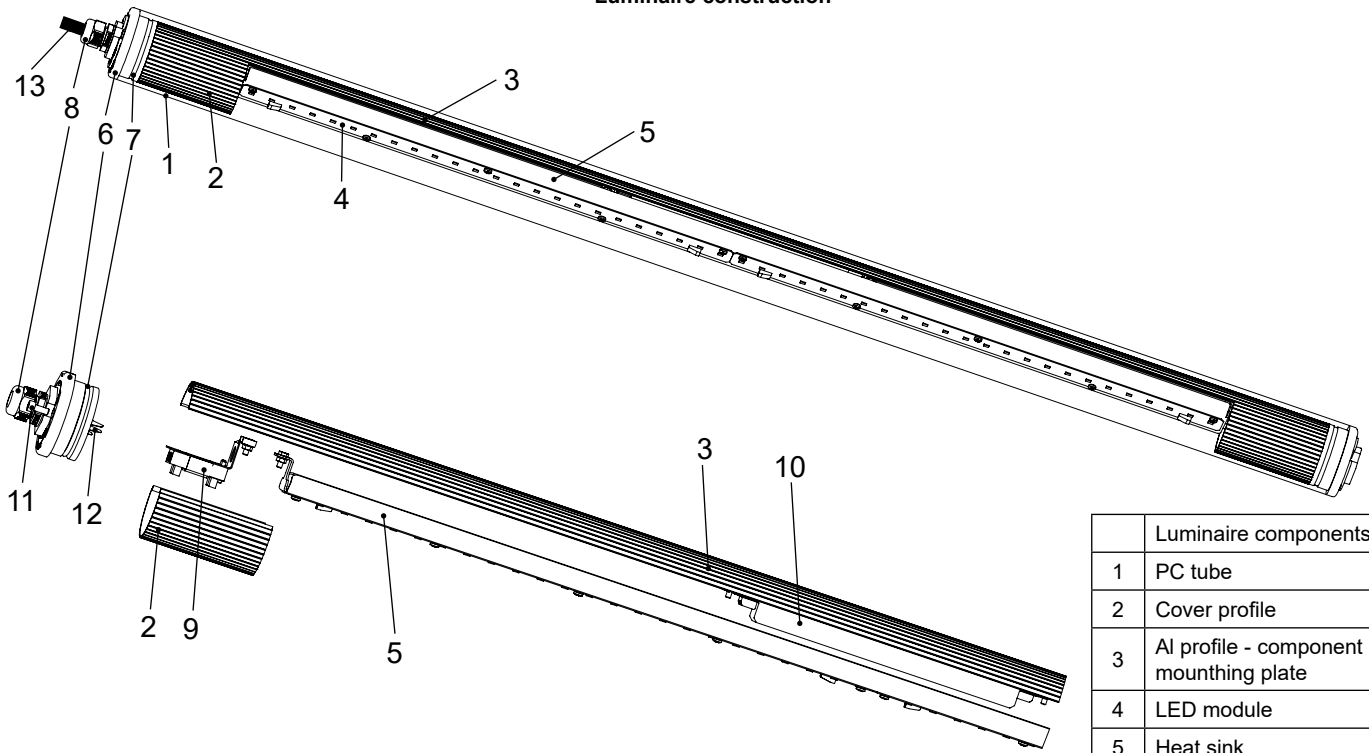


4





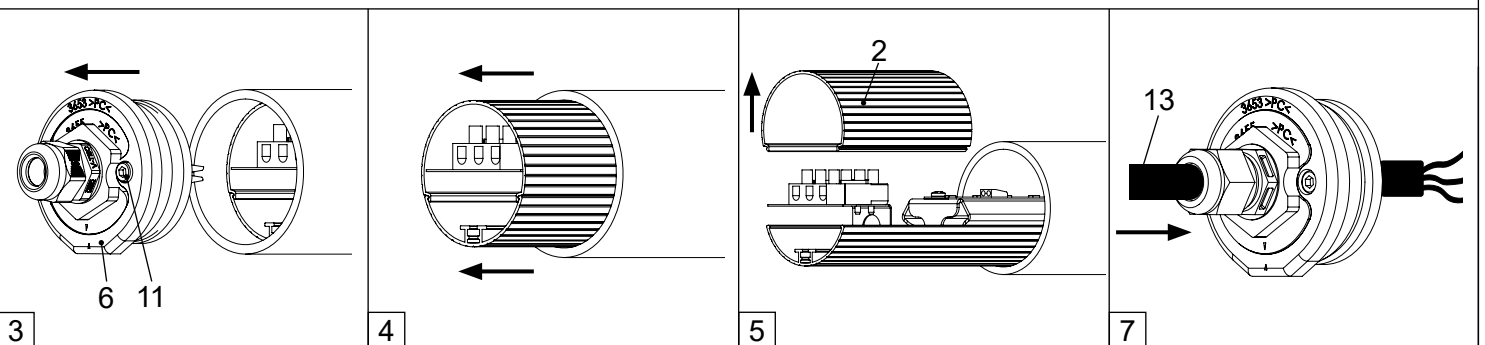
### Luminaire construction



Luminaire components	
1	PC tube
2	Cover profile
3	Al profile - component mounting plate
4	LED module
5	Heat sink
6	End cap
7	O-ring
8	Cable gland
9	Terminal block
10	LED driver
11	Stainless screw M5
12	Latches on the end cap
13	Supply cable

### Installation instructions:

1. Remove protective foil from the tube (1).
2. Attach the luminaire to plastic or metal mounting bracket. The screws on mounting bracket tighten with torque 2.0 Nm.
3. Loosen the two hex socket screws (11) on the housing end cap (6) and remove the end cap from the housing.
4. Slide the aluminium profile (2) above the terminal block (9) far enough to allow removal of the cover profile (2) above the terminal block.
5. Remove the cover profile.
6. Loosen the cable gland. Feed the supply cable (13) through the cable gland.
7. Insert the cable gland supplied with the luminaire into the opening in the end cap and secure it by screwing the locknut onto it from the opposite side of the end cap. Tighten the cable gland to the end cap to a torque of 2.7 Nm.



8. Connect the supply cable to the free part of the supply terminal block (9) as follows:

CLAMP	TYPE OF LUMINAIRE				STRIPPING THE WIRE
	ON/OFF	DALI	MULTI	EM	
L1	phase wire	phase wire	charging phase wire	charging phase wire	
L2	-	-	switching phase wire	-	
DA+	-	DALI +	-	-	
DA-	-	DALI -	-	-	
N	neutral wire	neutral wire	neutral wire	neutral wire	
⊕	protective wire	protective wire	protective wire	protective wire	

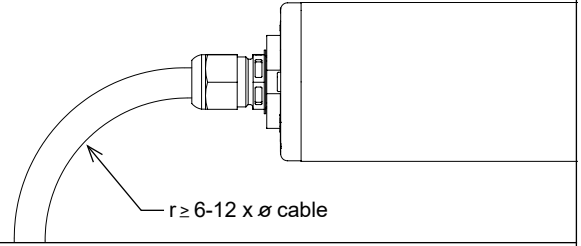
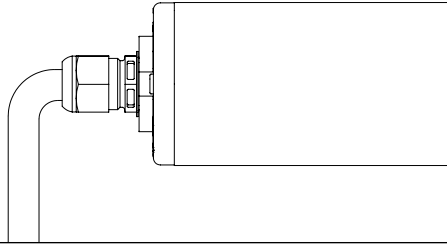
ON/OFF - ON/OFF driver    DALI - DALI2 driver    MULTI - Emergency unit 1H / 3H + ON/OFF driver    EM - Emergency unit 1H / 3H



When installing the cable, it is essential to observe the minimum cable bending radius. The minimum bending radius is defined as a multiple (typically 6–12×) of the cable outer diameter according to the cable manufacturer's specification. Failure to comply with this requirement may result in incorrect installation of the luminaire end cap and unacceptable mechanical stress being applied to it.

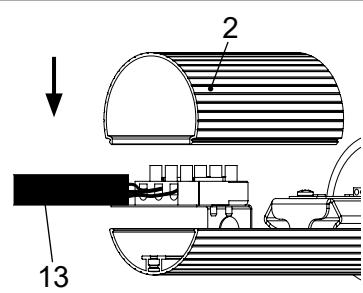
**If there is a risk of cable movement or mechanical stress, the cable must be suitably secured against movement!!!**

Failure to comply with the above installation requirements directly affects the maintenance of the declared IP rating of the luminaire.

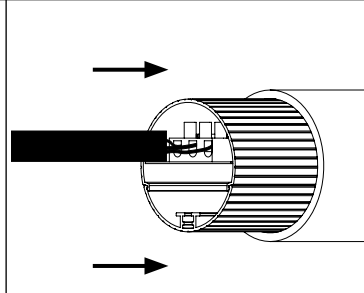


9. Refit the cover profile (2) and slide the aluminium profile back into the tube.

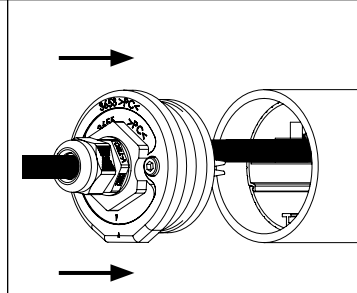
10. Refit the luminaire end cap (6) into the tube. Ensure that the terminal block holders are correctly inserted into the latches on the end cap (12).



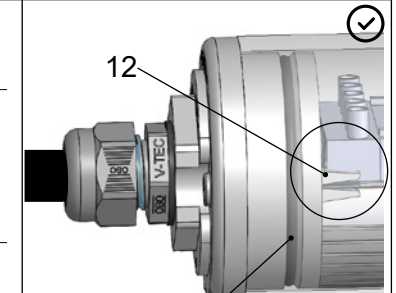
9.1



9.2



10.1



10.2

12

7

11. Tighten the hex socket screws (11) on the luminaire end cap to a tightening torque of 3–4 Nm.

12. After tightening the end cap screws, check that the rubber O-ring (7) evenly contacts the inner surface of the PC tube.

13. Properly tighten the cable glands until partial deformation of the sealing rubber insert is achieved. Tightening torque 2,3 Nm.

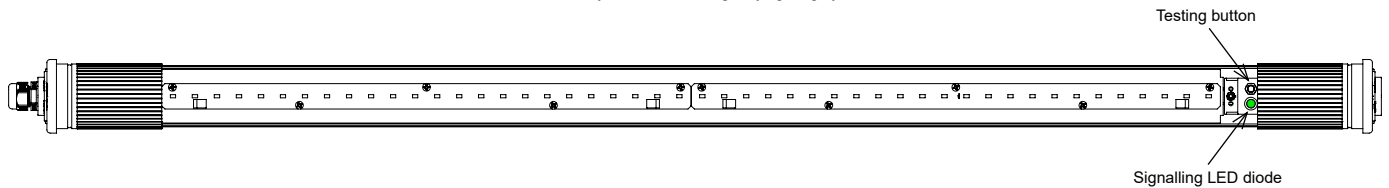
### Functionality Test of the Emergency Lighting System:

For testing the functionality of the emergency luminaire, press the button shown below; see Figure 2.

If the emergency source switches off before the specified autonomy time has elapsed, even though the battery is fully charged, the battery must be replaced with a new one.

**Note: The battery reaches full capacity after approximately three charging/discharging cycles.**

Figure 2  
Functionality test of the emergency lighting system



### Battery replacement:

Battery replacement is necessary once the luminaire no longer meets the requirements of its rated operating duration.

1. Disconnect the luminaire from the power supply
2. Loosen the two hex socket screws on the housing end cap and remove the end cap from the housing.
3. Slide the aluminium profile out of the housing far enough to allow removal of the cover profile above the terminal block. Remove the cover profile.
4. Disconnect the supply cable from the terminal block.
5. Slide the entire aluminium profile out of the luminaire.
6. Remove the heat sink from the aluminium profile (see Figure 3). Do not touch the LED module when handling the heat sink!
7. Disconnect and remove the old battery using a Phillips screwdriver to unscrew the two screws holding the battery (see Figure 4).
8. Mount the new battery (mark installation date).
9. Connect the battery to the emergency unit.
10. Reinstall the heat sink onto the aluminium profile. Do not touch the LED module when handling the heat sink!
11. Slide the aluminium profile back into the luminaire.
12. Reconnect the supply cable to the terminal block.
13. Refit the cover profile and slide the whole aluminium profile into the tube. Ensure that the terminal block holders are correctly engaged in the latches on the end cap that remains mounted on the luminaire.
14. Refit the luminaire end cap into the tube. Ensure that the terminal block holders are correctly inserted into the latches on the end cap. Tighten the hex socket screws on the luminaire end cap to a tightening torque of 3–4 Nm.
15. After tightening the end cap screws, check that the rubber O-ring evenly contacts the inner surface of the PC tube.
16. Reconnect to power and verify emergency operation.
17. Confirm that battery charging is indicated properly.

**WARNING: Use only batteries of the same type and parameters as indicated on the battery label.**

Figure 3  
Removal of the heat sink including the LED modules

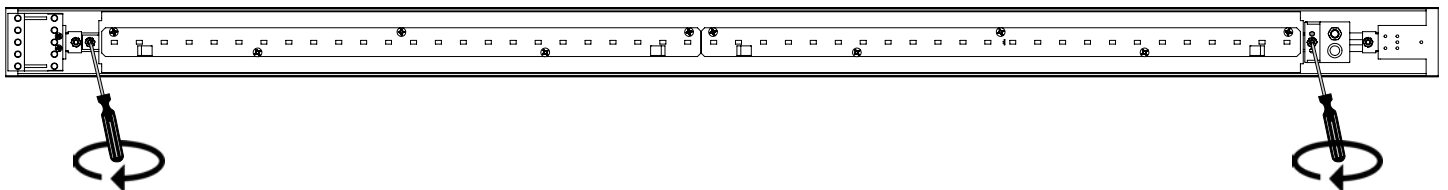
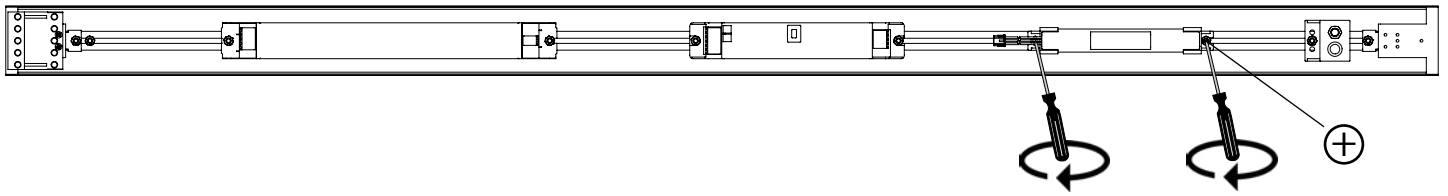


Figure 4  
Battery disconnection and removal using a Phillips screwdriver



**Accessories to order:**

In luminaire data sheet.

**Basic instructions:**

For users of luminaires

For users of emergency luminaires

For DALI system users

**i** After clicking on the QR code, you will be redirected to the relevant website.