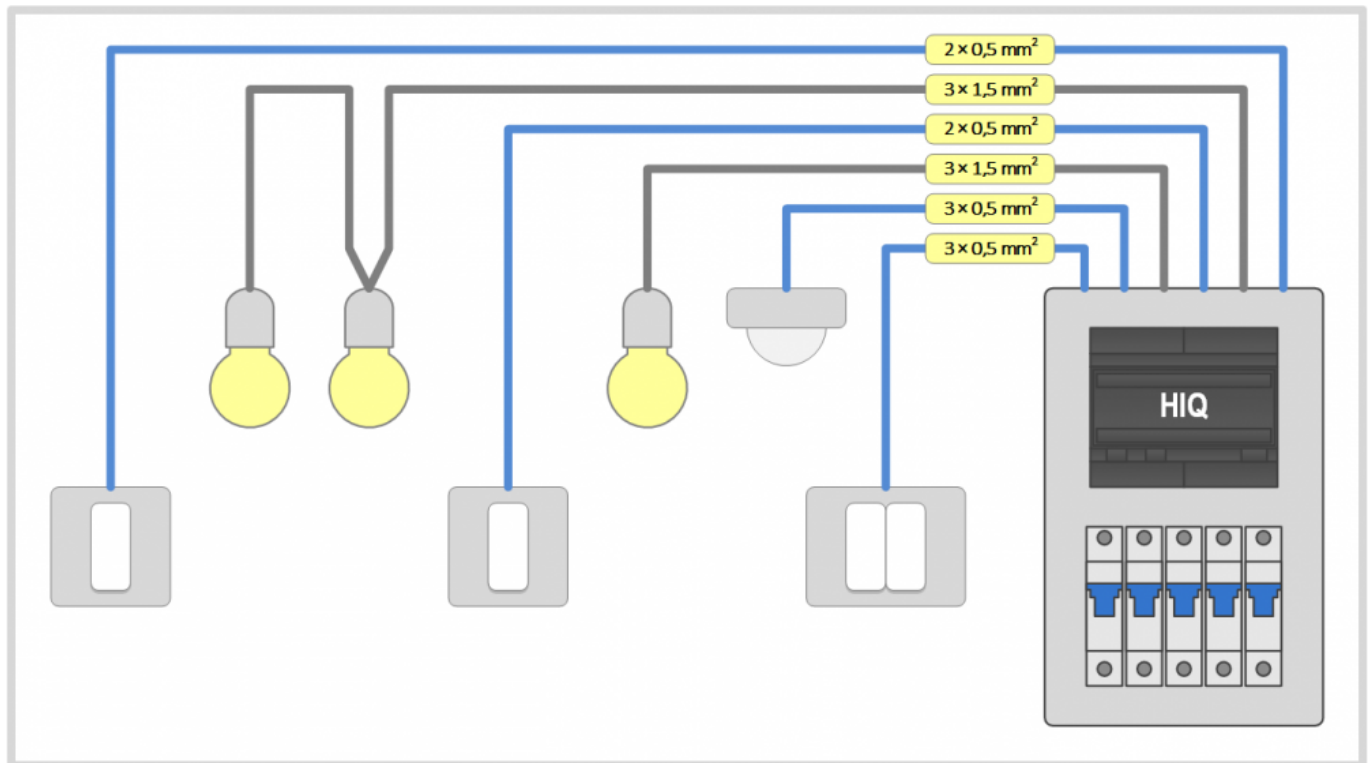


# LCS Devices wiring

## Discrete (on/off) & Dimmable lights




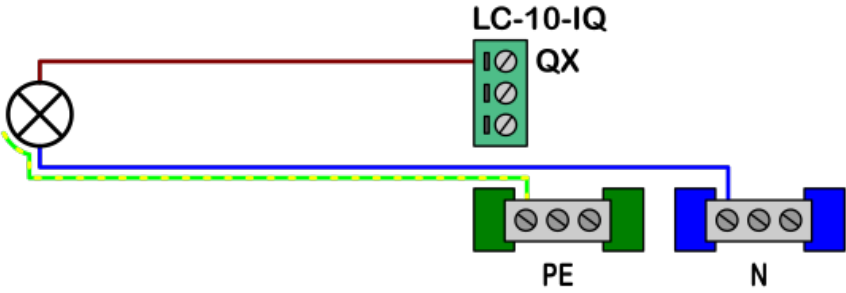

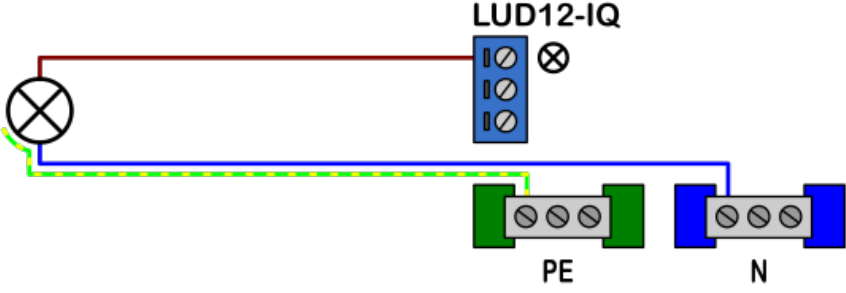

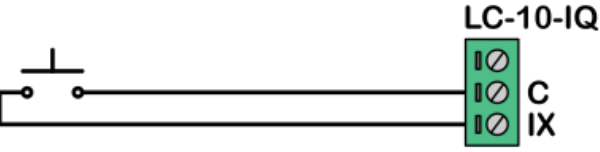

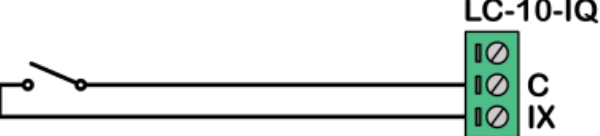

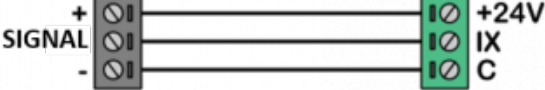

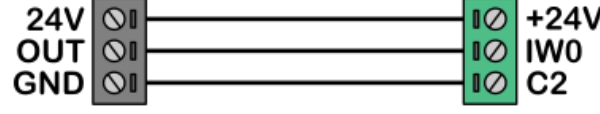
Individual lights (or hard-wired light groups) are wired directly to the distribution box with an appropriate wire gauge (usually  $3 \times 1,5 \text{ mm}^2$ ).

Push-button flush boxes are wired:

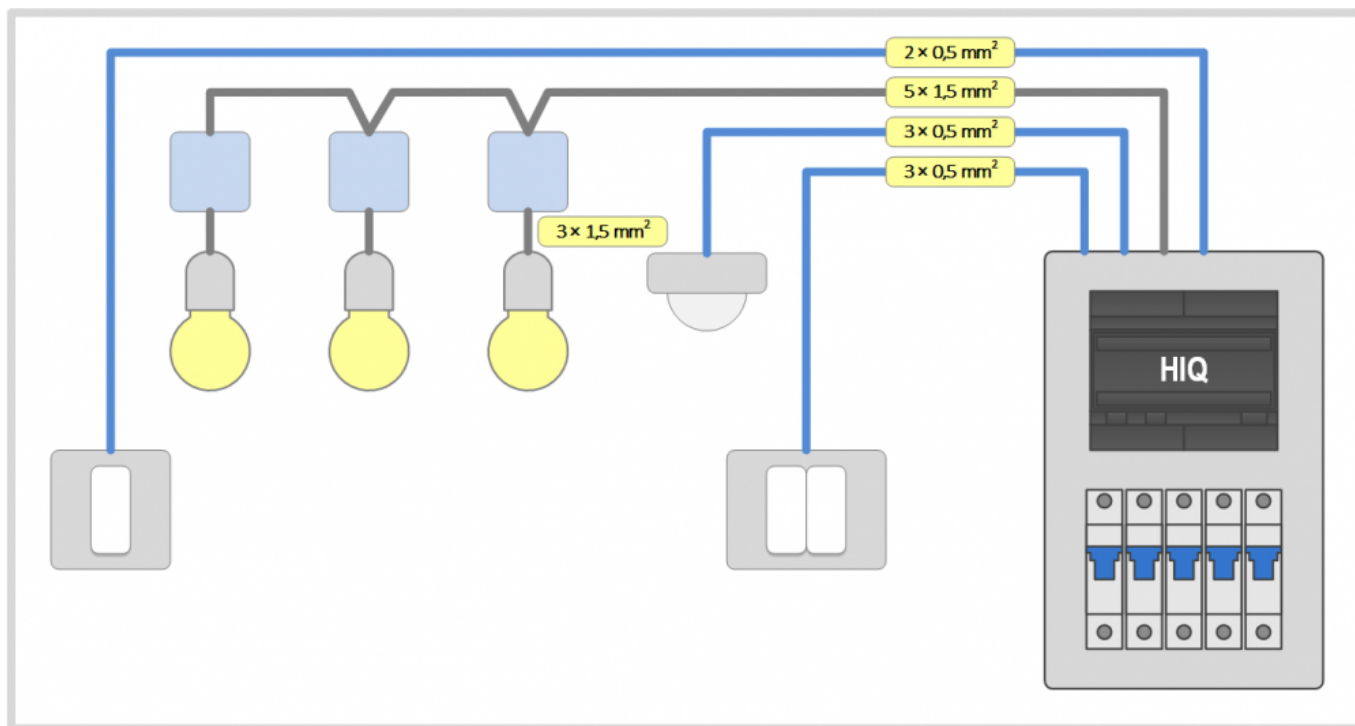
- directly to the distribution box with signal wires. One wire for each push-button and one common wire (for 3 push-buttons:  $4 \times 0,5 \text{ mm}^2$ ). Push buttons that are controlling same light are connected to the same input in parallel
- directly to the distribution box with Cat5+ cable. Up to four buttons on one Cat5+ cable. One core wire for each push-button and one twisted pair for common (for 4 push-buttons: Cat 5+<sup>2</sup>). Push buttons that are controlling same light are connected to the same input in parallel.

Motion sensors are wired:

- directly to the distribution box with signal wires. One wire for each sensor and one common wire (for 3 push-buttons:  $4 \times 0,5 \text{ mm}^2$ ). Sensors that are controlling same light are connected to the same input in parallel.
- directly to the distribution box with Cat5+ cable. Up to four sensors on one Cat5+ cable. One core wire for each sensor, one twisted pair for +24 VDC power supply and one twisted pair for 0 VDC (ground) power supply (for 4 sensors: Cat 5+<sup>2</sup>). Sensors that are controlling same light are connected to the same input in parallel. More sensors can be used for the same light.

<b>Light</b>	 								
<b>Dimmable light</b>	 								
<b>Push-button</b>	 								
<b>Door / window reed sensor</b>	 								
<b>PIR motion sensor</b>	 <table border="1" data-bbox="512 1429 1166 1597"><tr><td><b>MOTION SENSOR</b></td><td><b>LIGHTING MODULE</b></td></tr><tr><td>+</td><td>+24V</td></tr><tr><td>SIGNAL</td><td>IX</td></tr><tr><td>-</td><td>C</td></tr></table> 	<b>MOTION SENSOR</b>	<b>LIGHTING MODULE</b>	+	+24V	SIGNAL	IX	-	C
<b>MOTION SENSOR</b>	<b>LIGHTING MODULE</b>								
+	+24V								
SIGNAL	IX								
-	C								
<b>Light sensor</b>	 <table border="1" data-bbox="587 1688 1190 1845"><tr><td><b>RHKF-U</b></td><td><b>HC-IQ</b></td></tr><tr><td>24V</td><td>+24V</td></tr><tr><td>OUT</td><td>IW0</td></tr><tr><td>GND</td><td>C2</td></tr></table> 	<b>RHKF-U</b>	<b>HC-IQ</b>	24V	+24V	OUT	IW0	GND	C2
<b>RHKF-U</b>	<b>HC-IQ</b>								
24V	+24V								
OUT	IW0								
GND	C2								

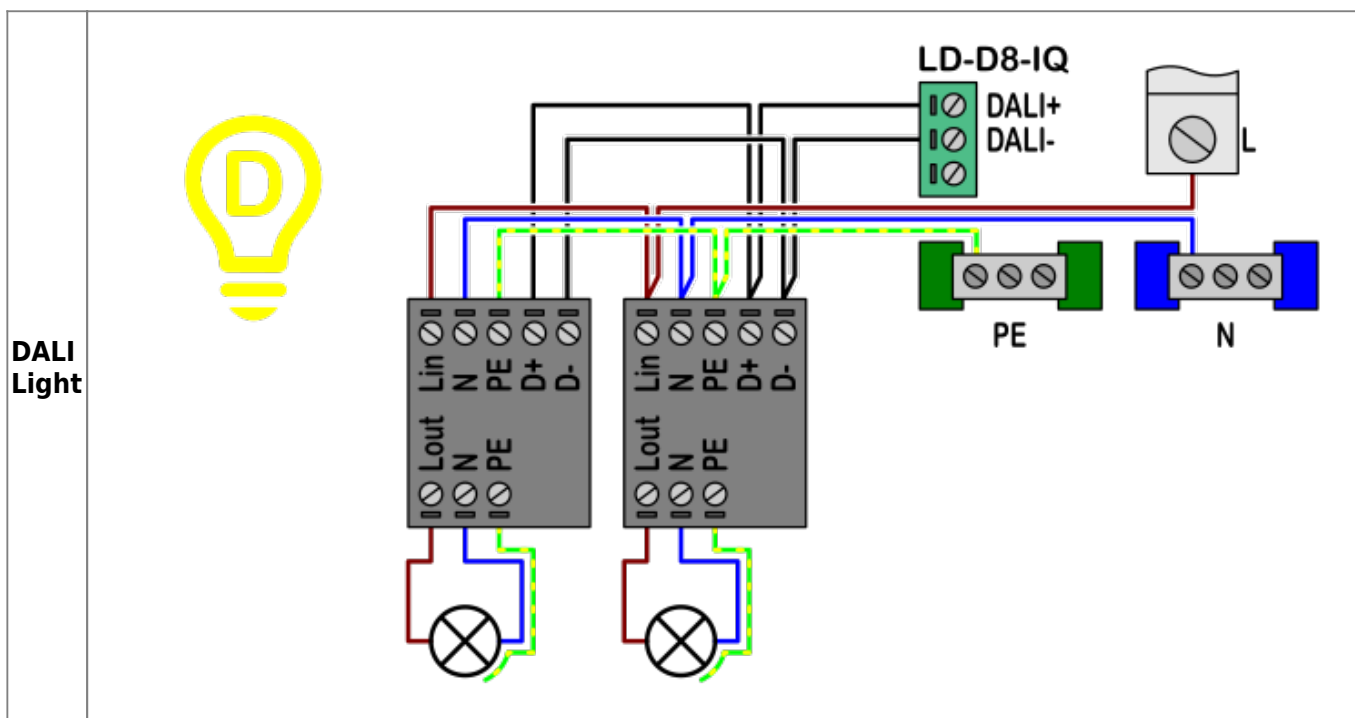
# DALI dimmable lights



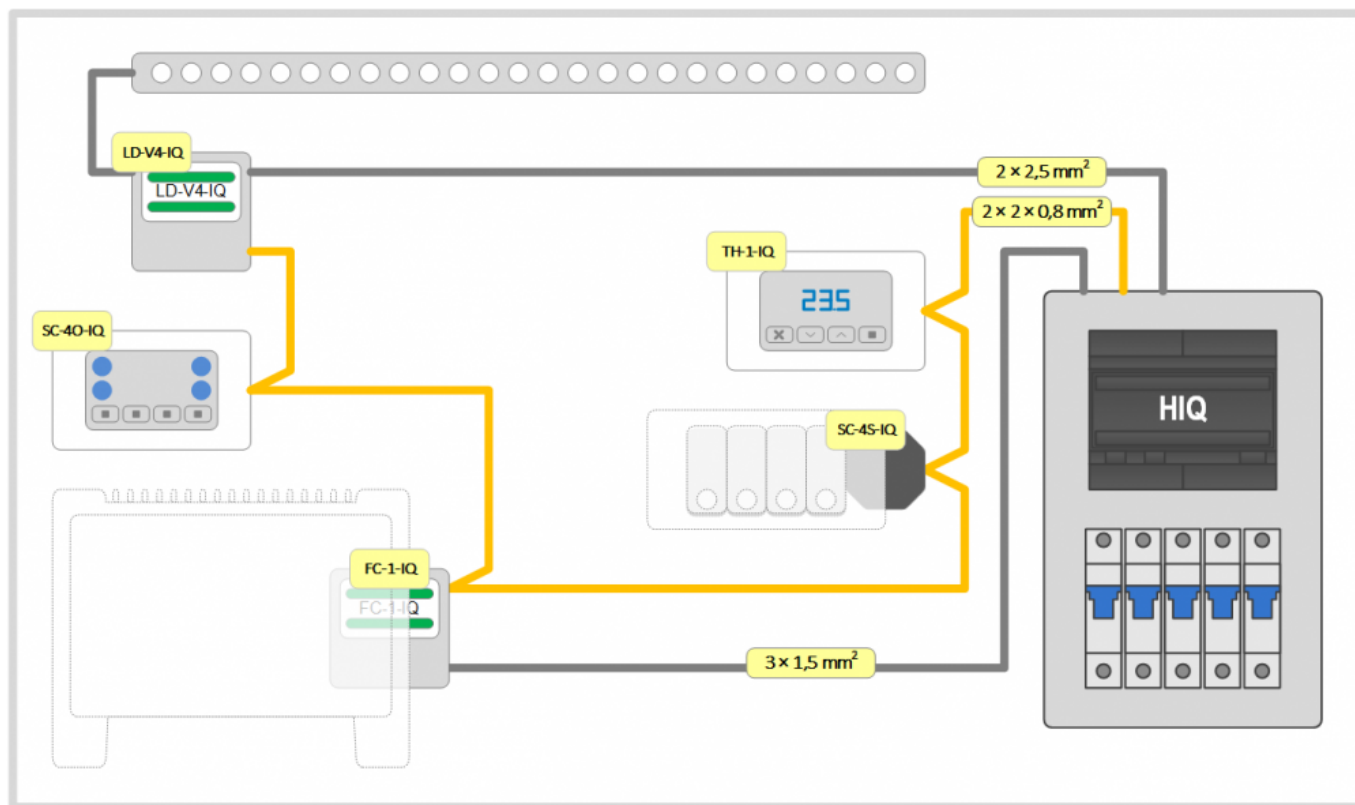
All light ballasts are wired to DALI bus with an appropriate wire gauge (usually 5 × 1,5 mm<sup>2</sup>)

Push-button flush boxes are wired directly to the distribution box with signal wires. One wire for each push-button and one common wire (for 3 push-buttons: 4 × 0,5 mm<sup>2</sup>)

Sensors are wired directly to the distribution box. More sensors can be used for the same light. Presence sensors must be wired in **parallel**, read sensors in **series**.

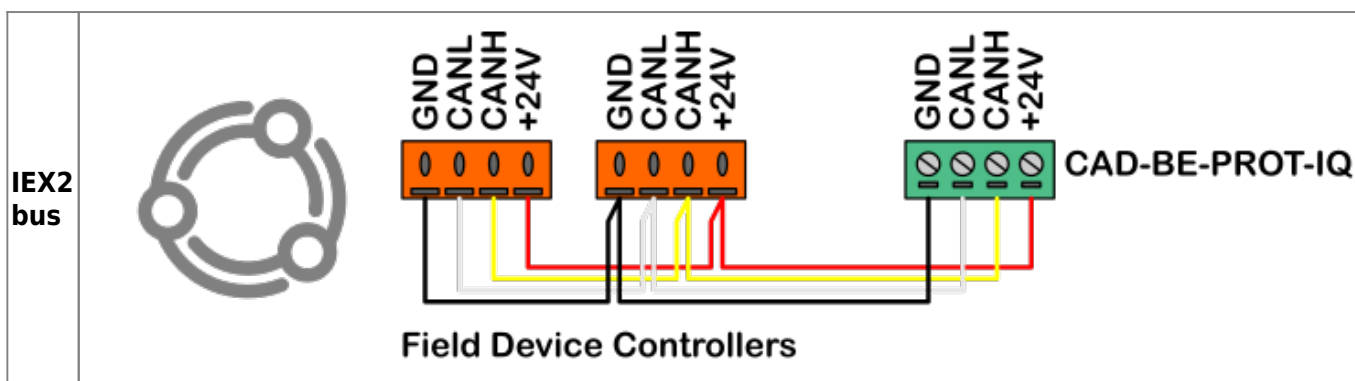


# Field modules



Applies to:

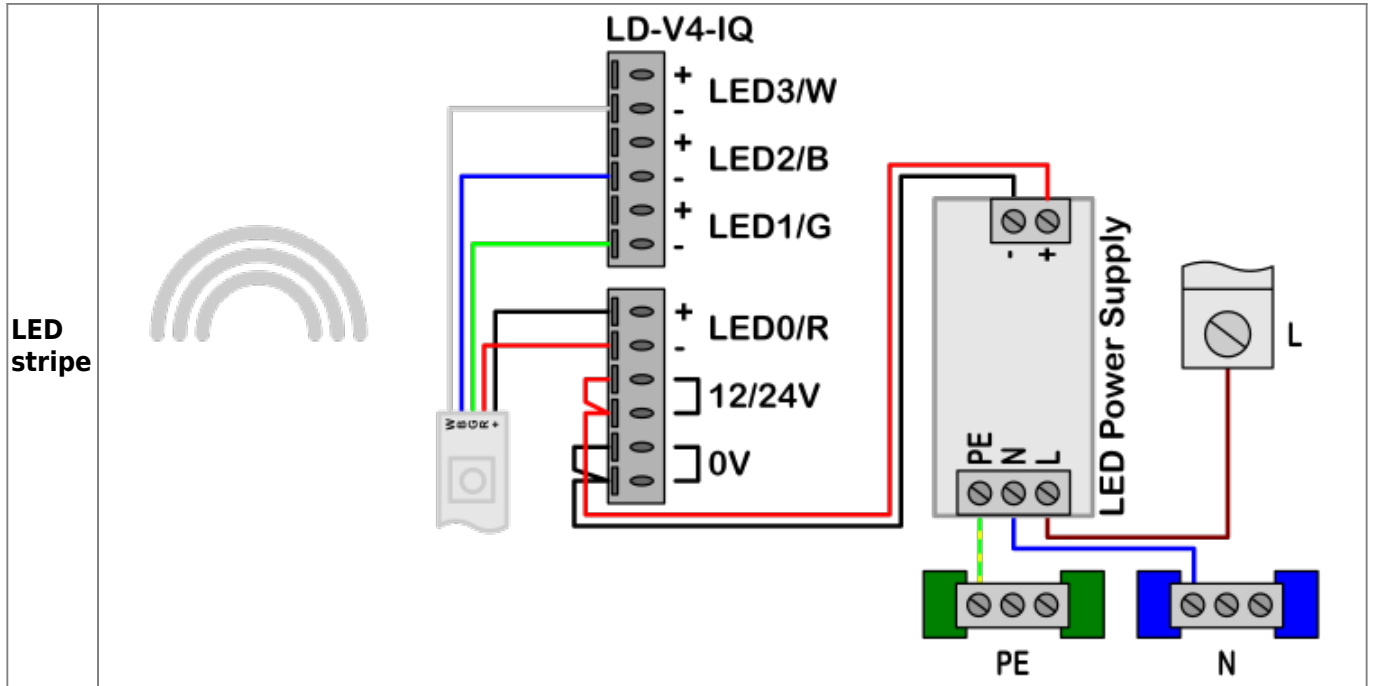
- Light controller
  - LD-V4-IQ
- Scene controllers
  - SC-4T-IQ
  - SC-40-IQ
  - SC-4S-IQ



All field modules are connected to the IEX bus with 2 x 2 x 0,8 mm<sup>2</sup> cable.

Some devices controlled by Field modules needs additional power supply:

- LD-V4-IQ need LED power supply; 12 or 24V DC depending of LED stripe type
- FC-1-IQ need fan-coil motor and valve power supply; see fan-coil documentation - usually 230V AC



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Last update: **2020/11/15 16:43**

