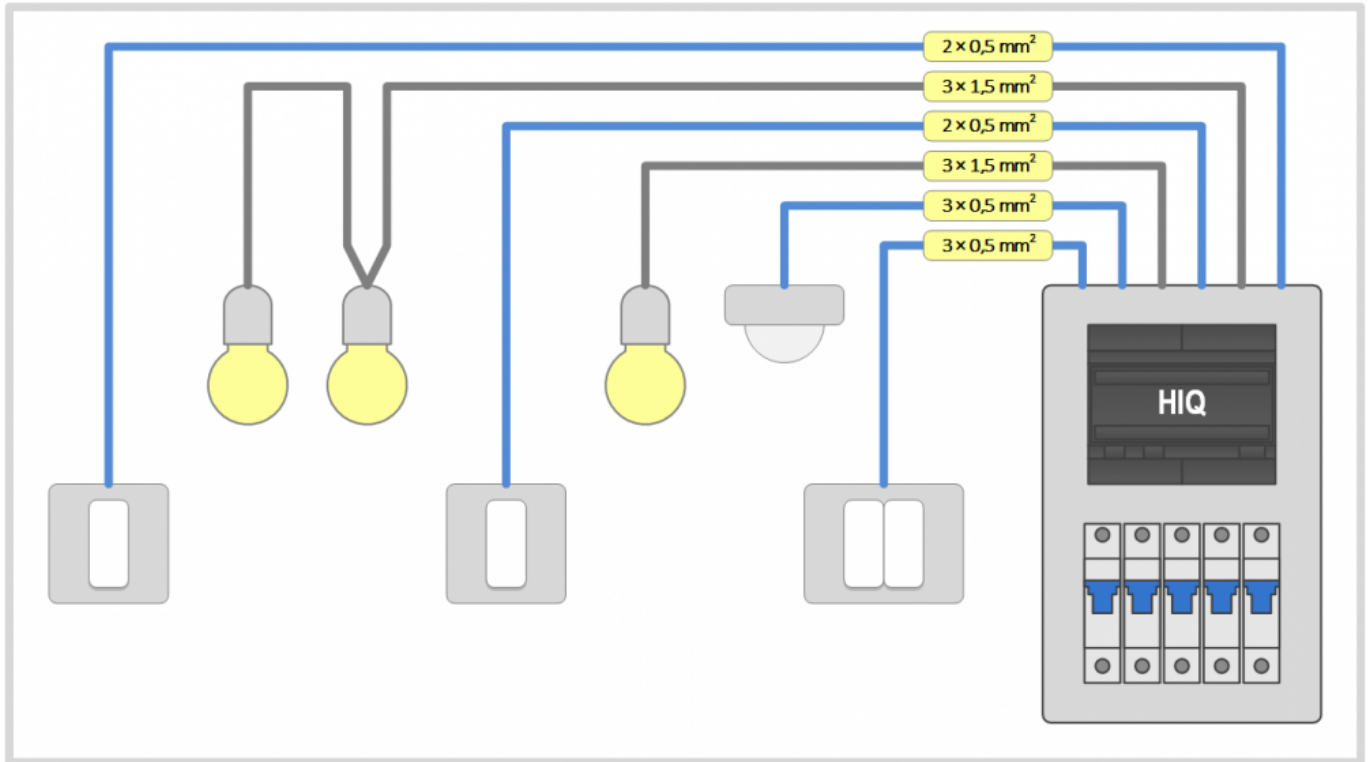


Devices wiring

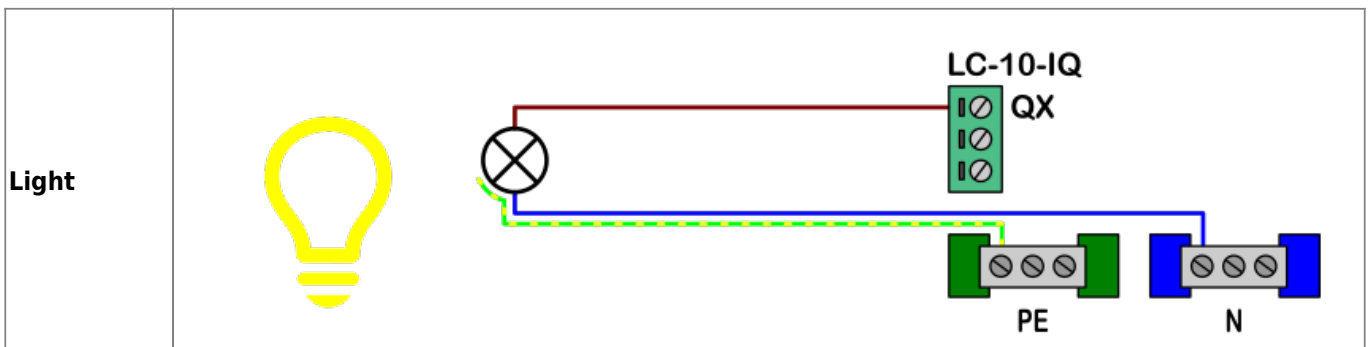
Discrete (on/off) & Dimmable lights

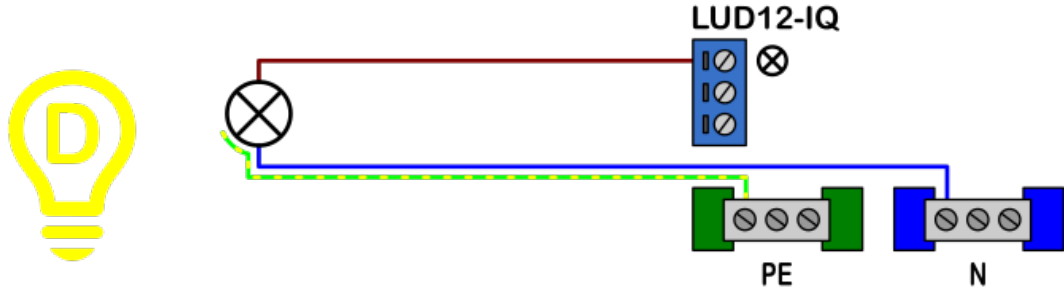
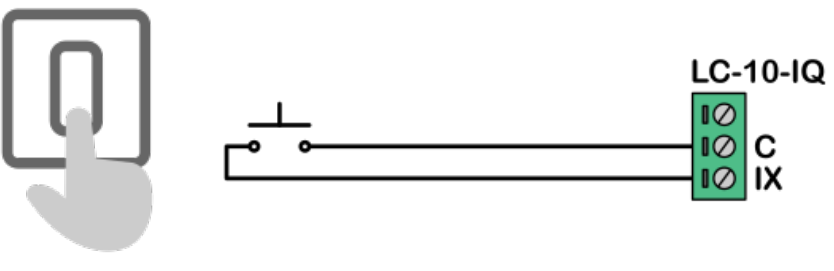
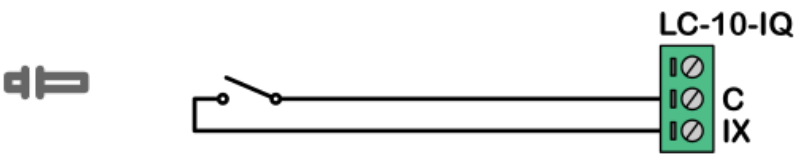
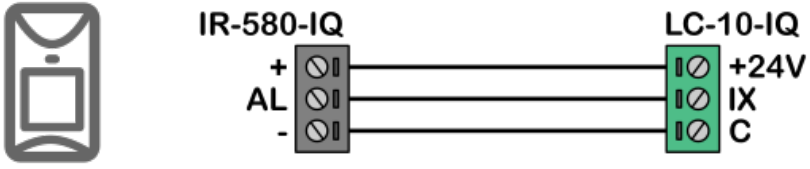
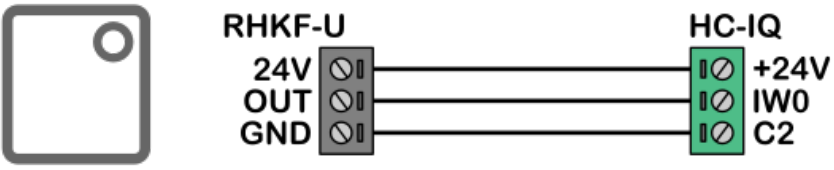


Individual lights (or hard-wired light groups) are wired directly to the distribution box with an appropriate wire gauge (usually $3 \times 1,5 \text{ mm}^2$).

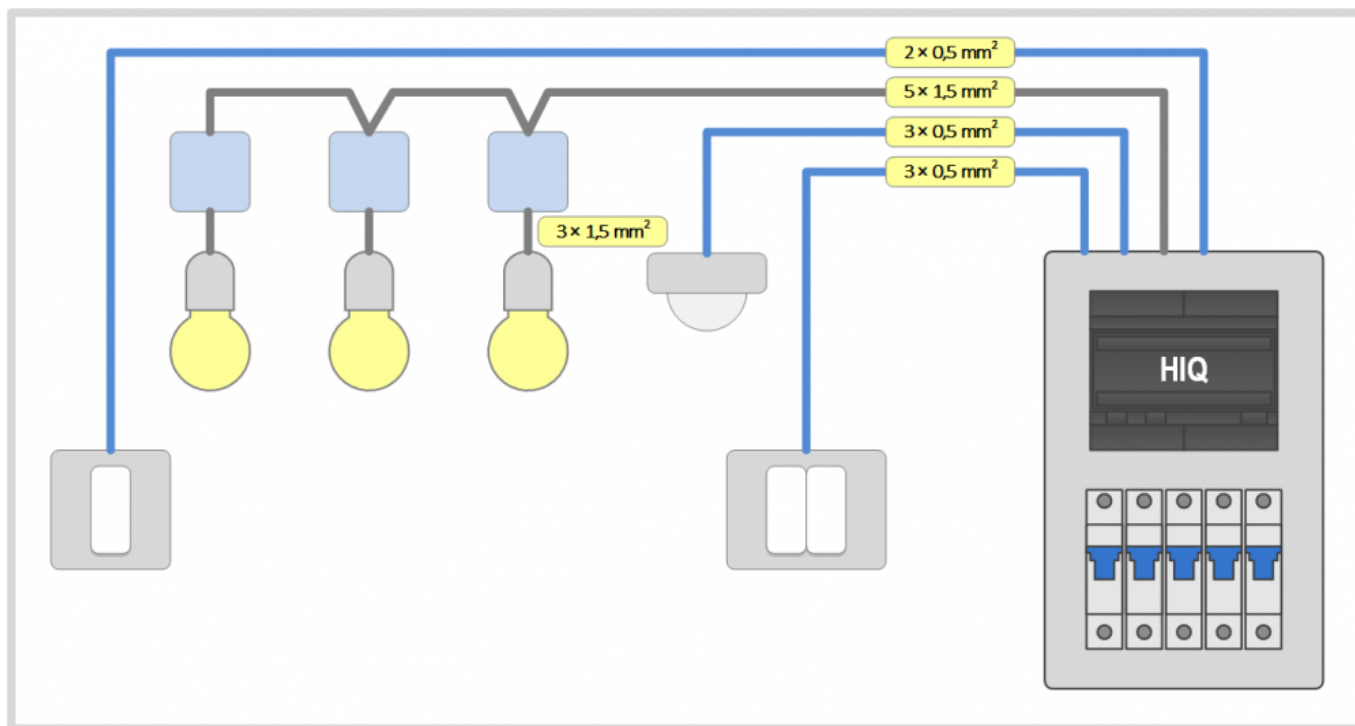
Push-button flush boxes are wired directly to the distribution box with signal wires. One wire for each push-button and one common wire (for 3 push-buttons: $4 \times 0,5 \text{ mm}^2$). Push buttons that are controlling same light are connected to the same input in parallel.

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



<p>Dimmable light</p>	 <p>The diagram shows a lightbulb connected to a dimmer switch labeled LUD12-IQ. The dimmer switch is connected to a power supply with PE (ground) and N (neutral) terminals. The wiring is color-coded: red for phase, blue for neutral, and green/yellow for ground.</p>
<p>Push-button</p>	 <p>The diagram shows a push-button switch connected to a terminal block labeled LC-10-IQ. The terminal block has two terminals labeled C and IX.</p>
<p>Door / window reed sensor</p>	 <p>The diagram shows a reed sensor switch connected to a terminal block labeled LC-10-IQ. The terminal block has two terminals labeled C and IX.</p>
<p>PIR motion sensor</p>	 <p>The diagram shows a PIR sensor labeled IR-580-IQ with terminals +, AL, and -. It is connected to a terminal block labeled LC-10-IQ with terminals +24V, IX, and C.</p>
<p>Light sensor</p>	 <p>The diagram shows a light sensor labeled RHKF-U with terminals 24V, OUT, and GND. It is connected to a terminal block labeled HC-IQ with terminals +24V, IW0, and C2.</p>

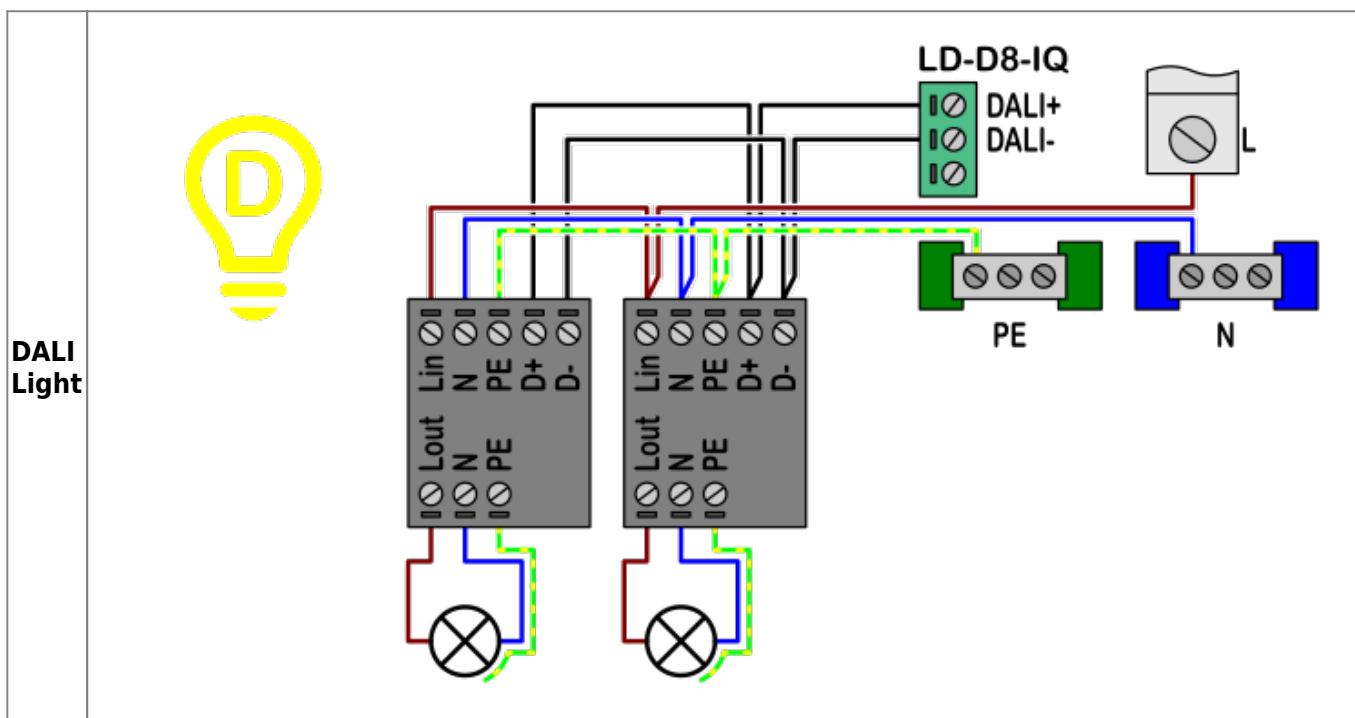
DALI dimmable lights



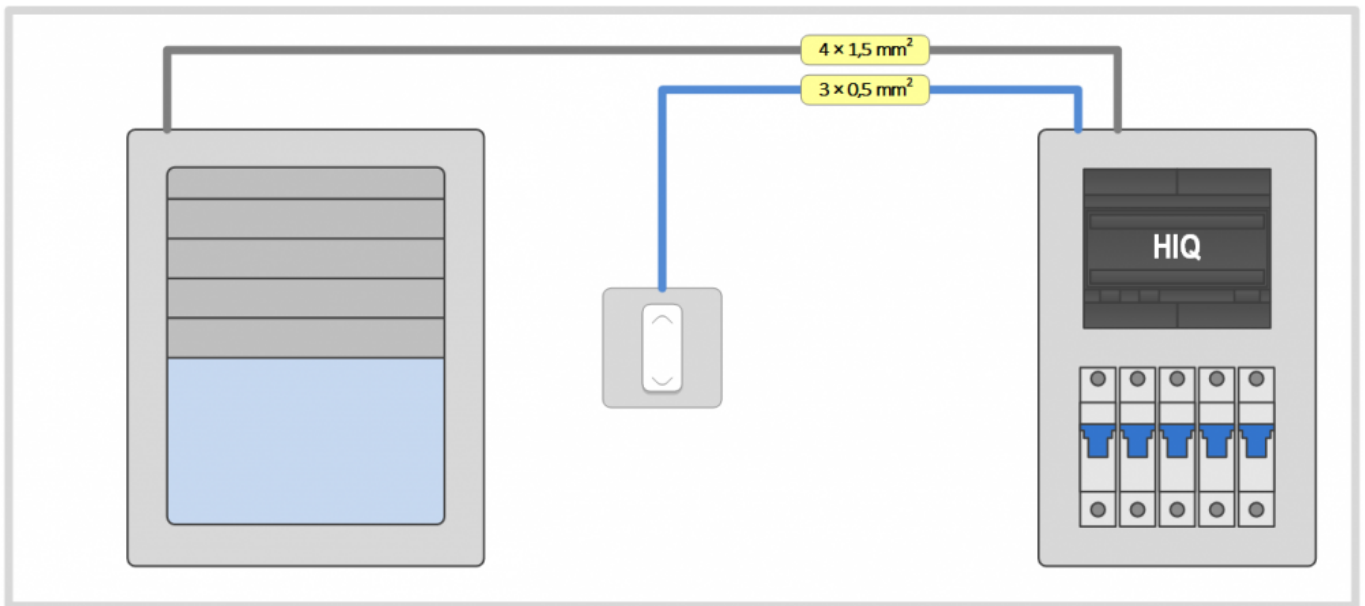
All light ballasts are wired to DALI bus with an appropriate wire gauge (usually $5 \times 1,5 \text{ mm}^2$)

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: $4 \times 0,5 \text{ mm}^2$)

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**.


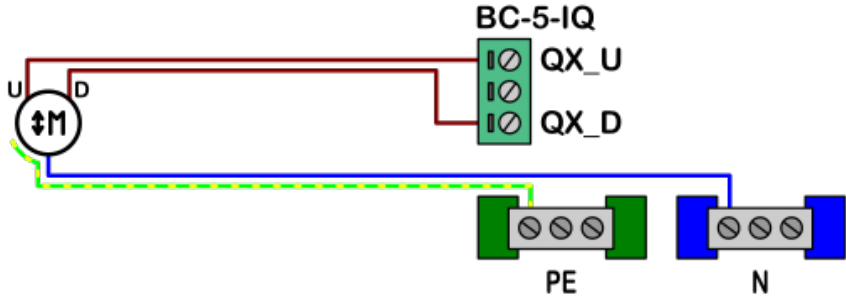
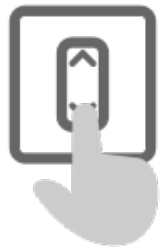
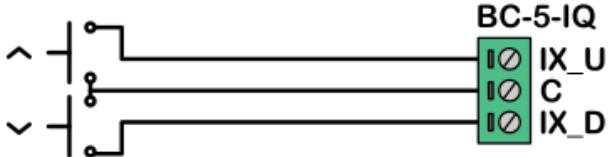


Blinds motors

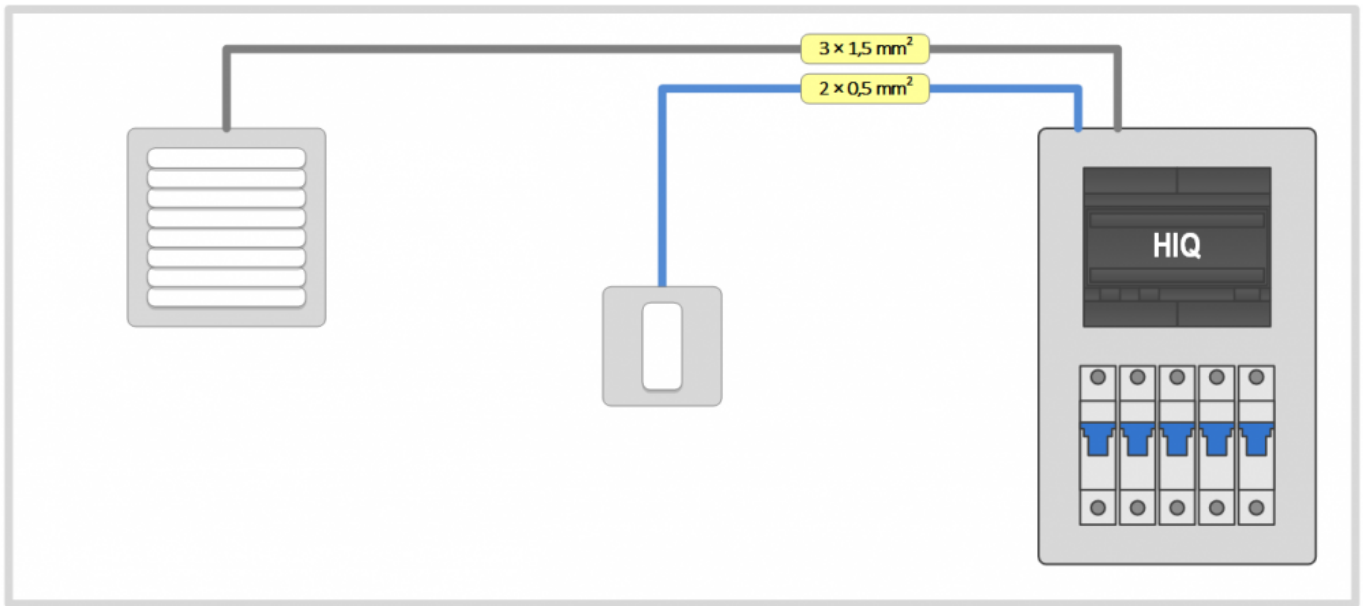


Blind motors are wired directly to the distribution box with an appropriate wire gauge (usually 4 x 1,5 mm²)

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 2 push-buttons (up/down)): 3 x 0,5 mm²

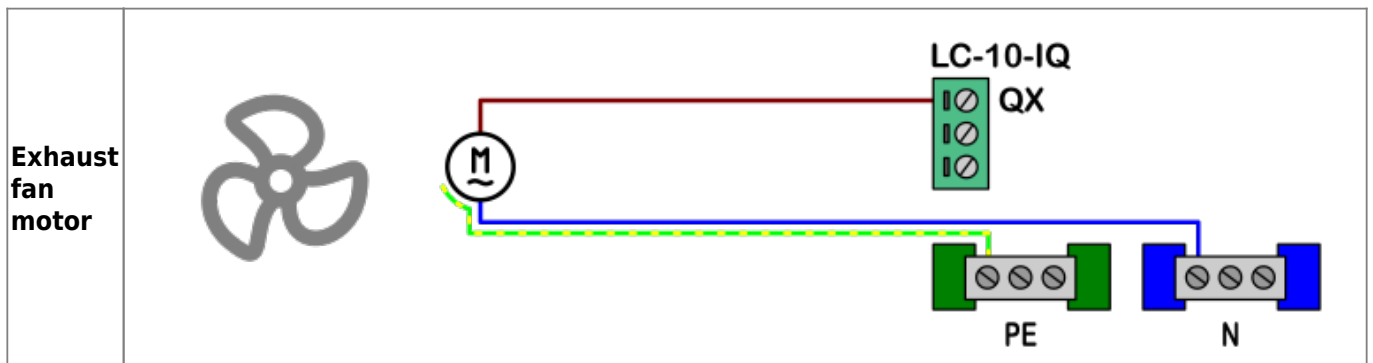
<p>Blinds motor</p> 	
<p>Blinds push-buttons</p> 	

Exhaust fan

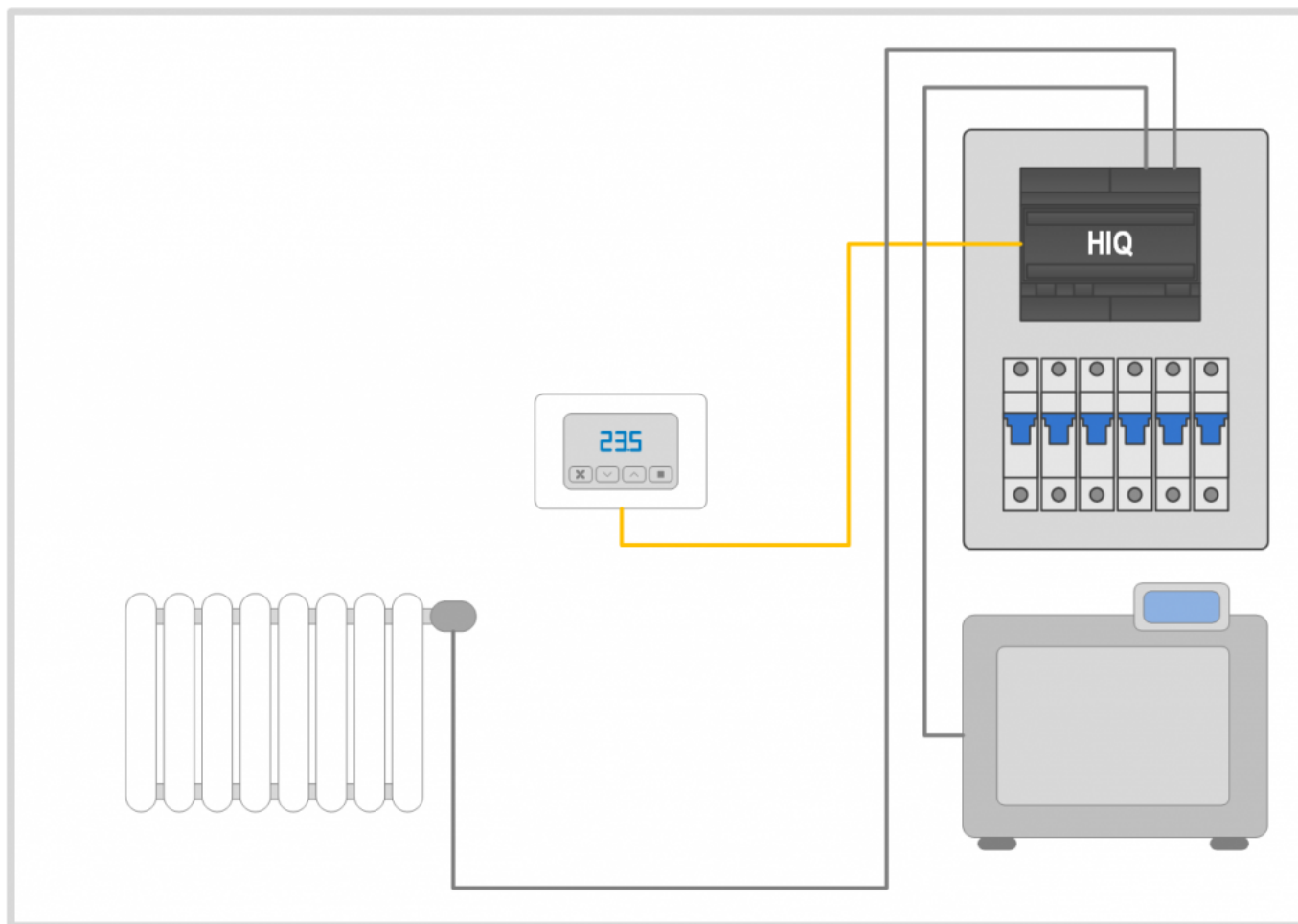


Exhaust fans are wired directly to the distribution box with an appropriate wire gauge (usually 3 x 1,5 mm²)

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 1 push-button: 2 x 0,5 mm²)

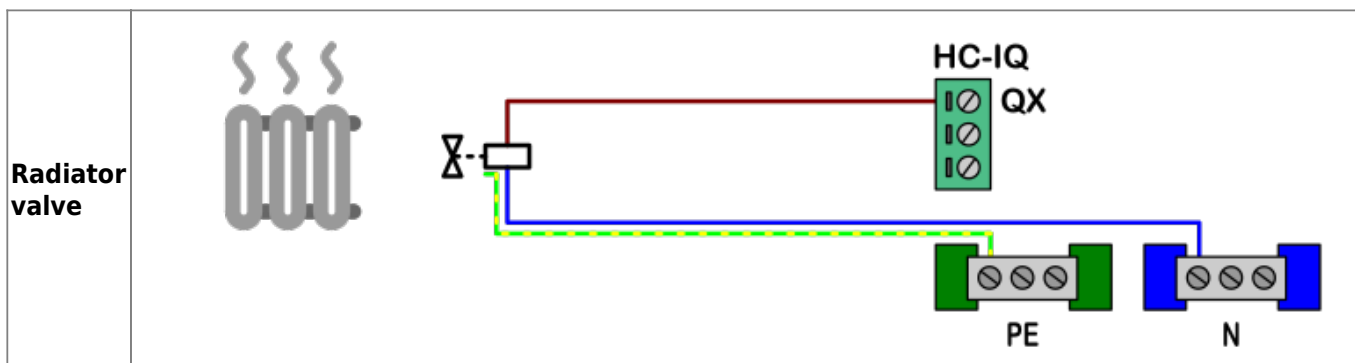


HVAC

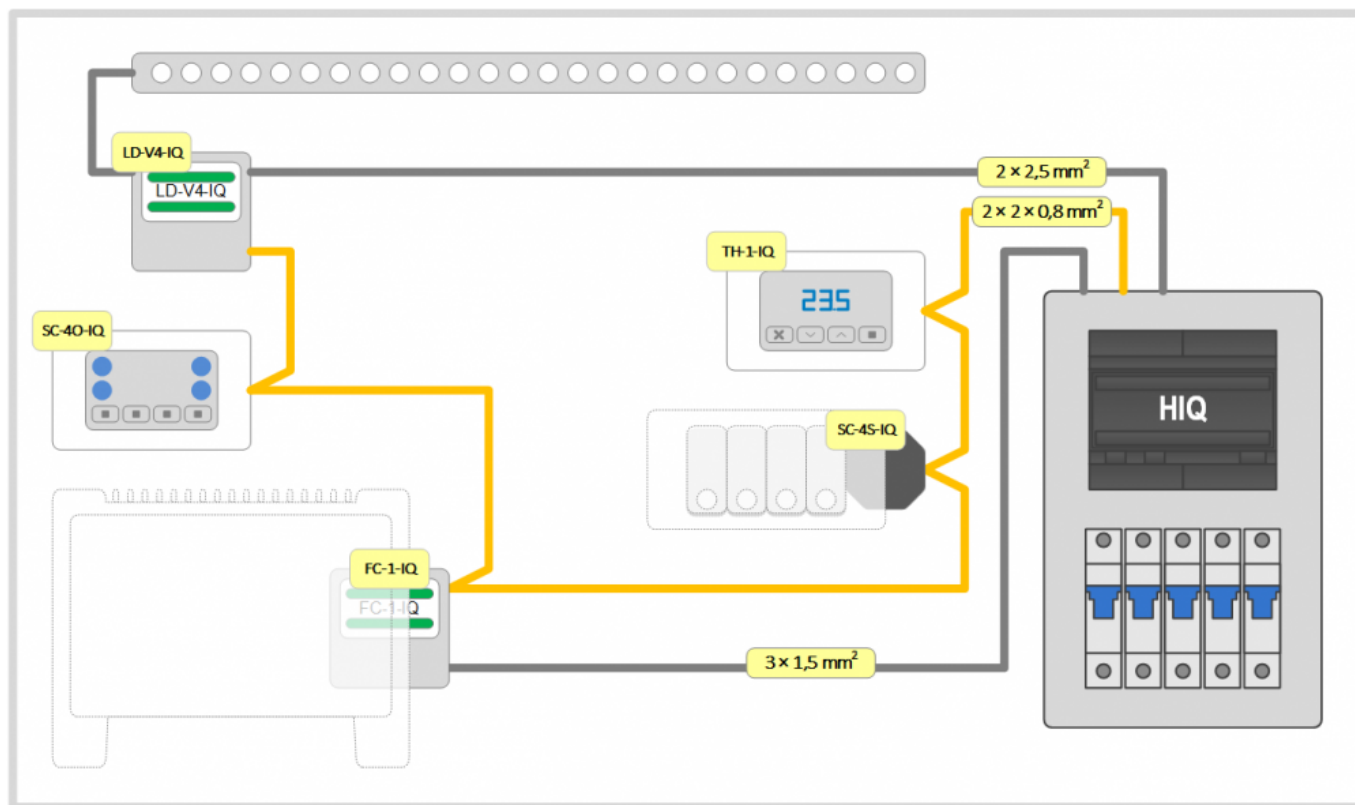


Radiator valves and boiler enable signal are wired directly to the distribution box with an appropriate wire gauge (usually $3 \times 1,5 \text{ mm}^2$)

Thermostat is field module - see [Field modules wiring](#).

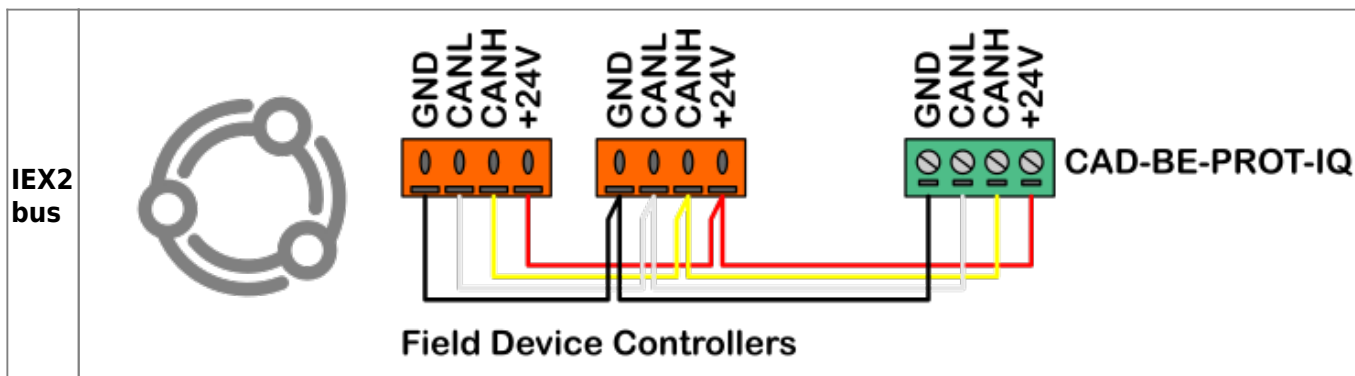


Field modules



Applies to:

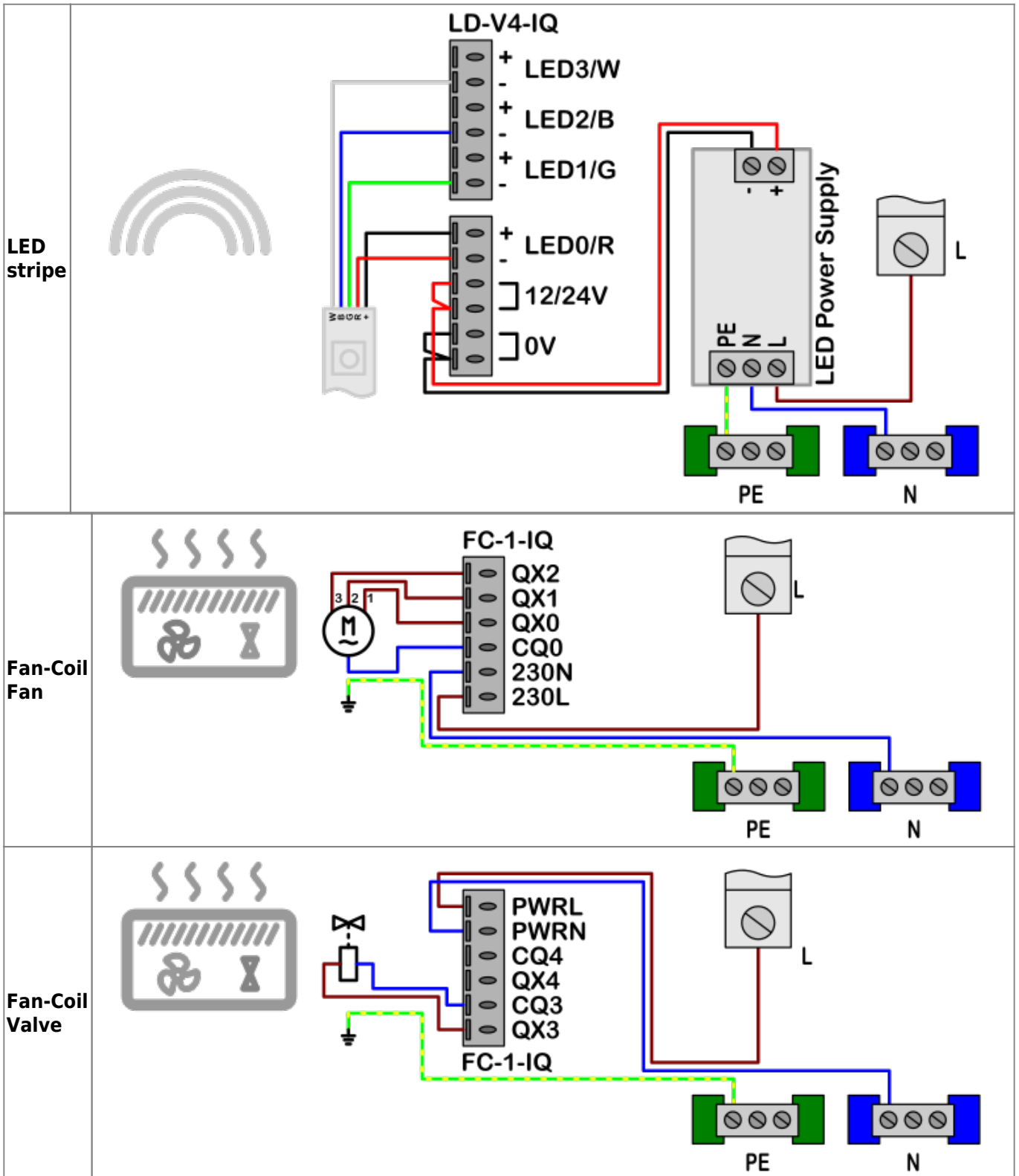
- Light controller
 - LD-V4-IQ
- Scene controllers
 - SC-4T-IQ
 - SC-40-IQ
 - SC-4S-IQ
- HVAC controllers
 - TH-1M-IQ
 - TH-1T-IQ
 - TH-2-IQ
 - TH-3-IQ
- HVAC actuators
 - FC-1-IQ



All field modules are connected to the IEX bus with 2 x 2 x 0,8 mm² 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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