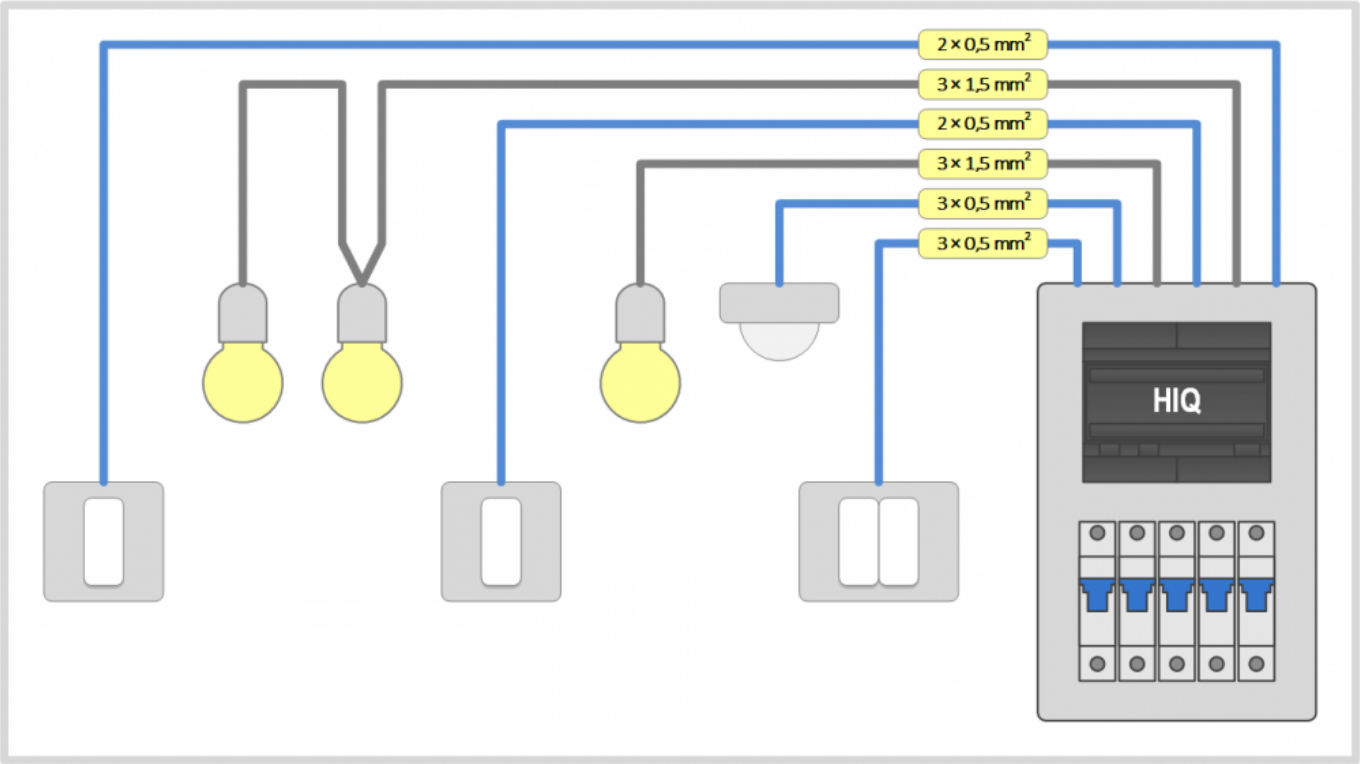
Devices wiring

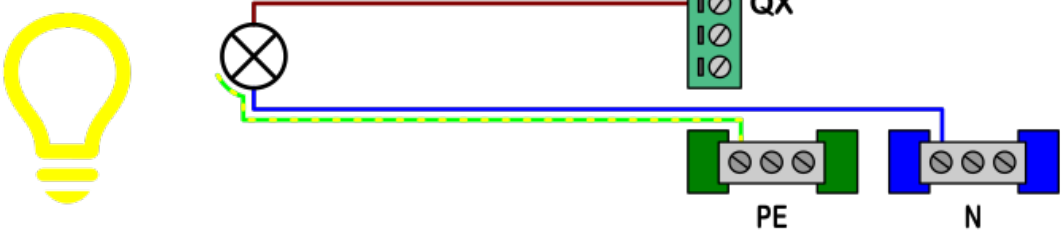
Discrete (on/off) & Dimmable lights

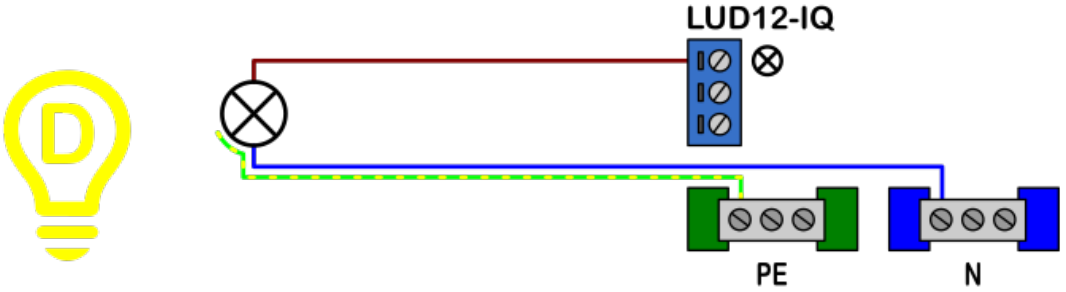
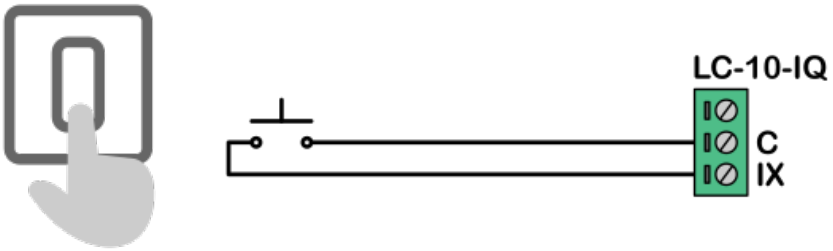
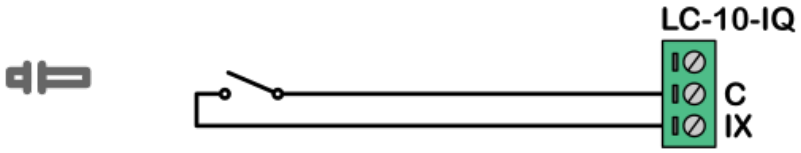
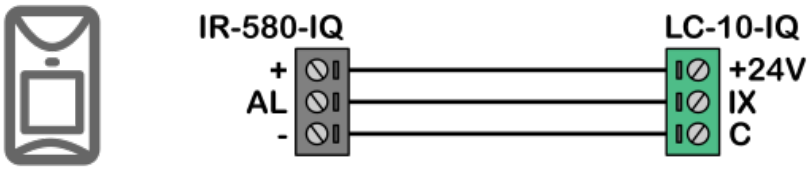
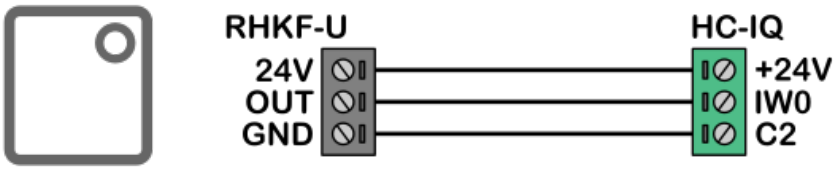


Individual lights (or hard-wired light groups) are wired directly to the distribution box with an appropriate wire gauge (usually 3 × 1,5 mm^2).

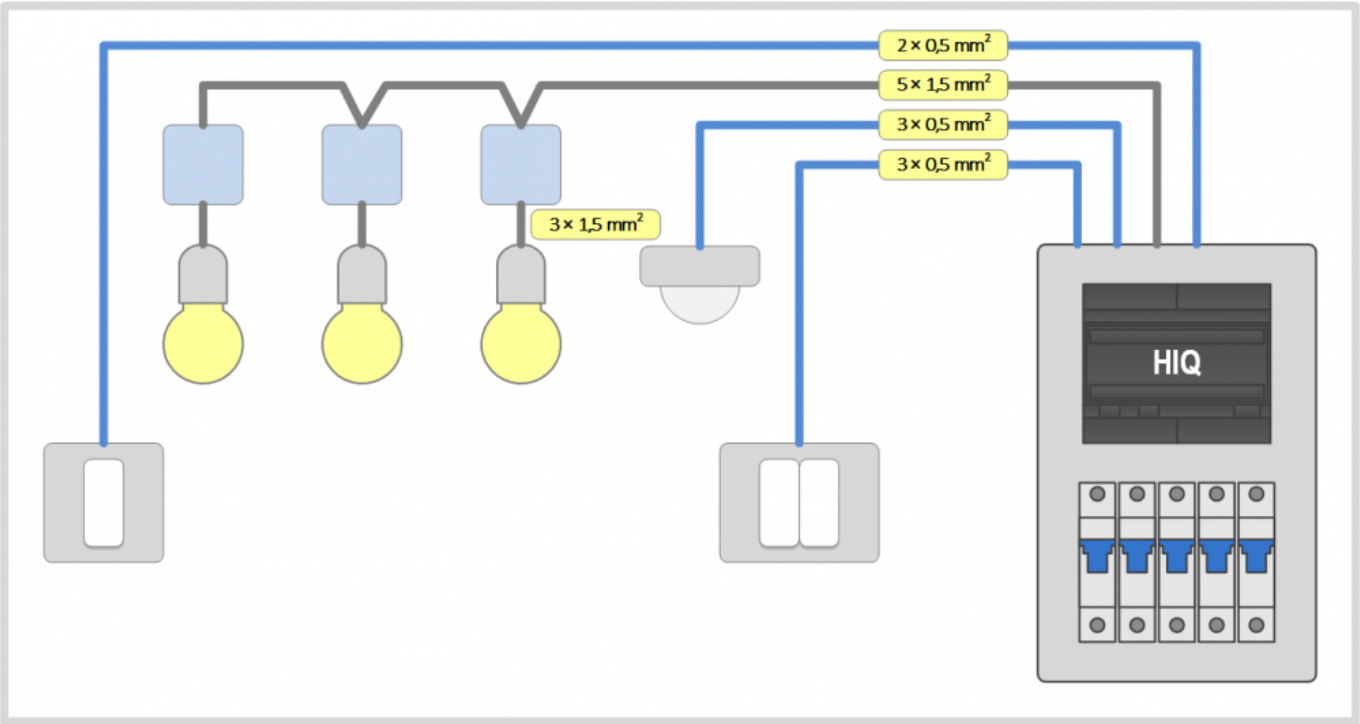
Push-button flush boxes are wired directly to the distribution box with signal wires. One wire for each push-button and one common wire (for 3 push-buttons: 4 × 0,5 mm^2). Push buttons that are controlling same light are connected to the same input in parallel.

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**.

Light	

Dimmable light	
Push-button	
Door / window reed sensor	
PIR motion sensor	
Light sensor	

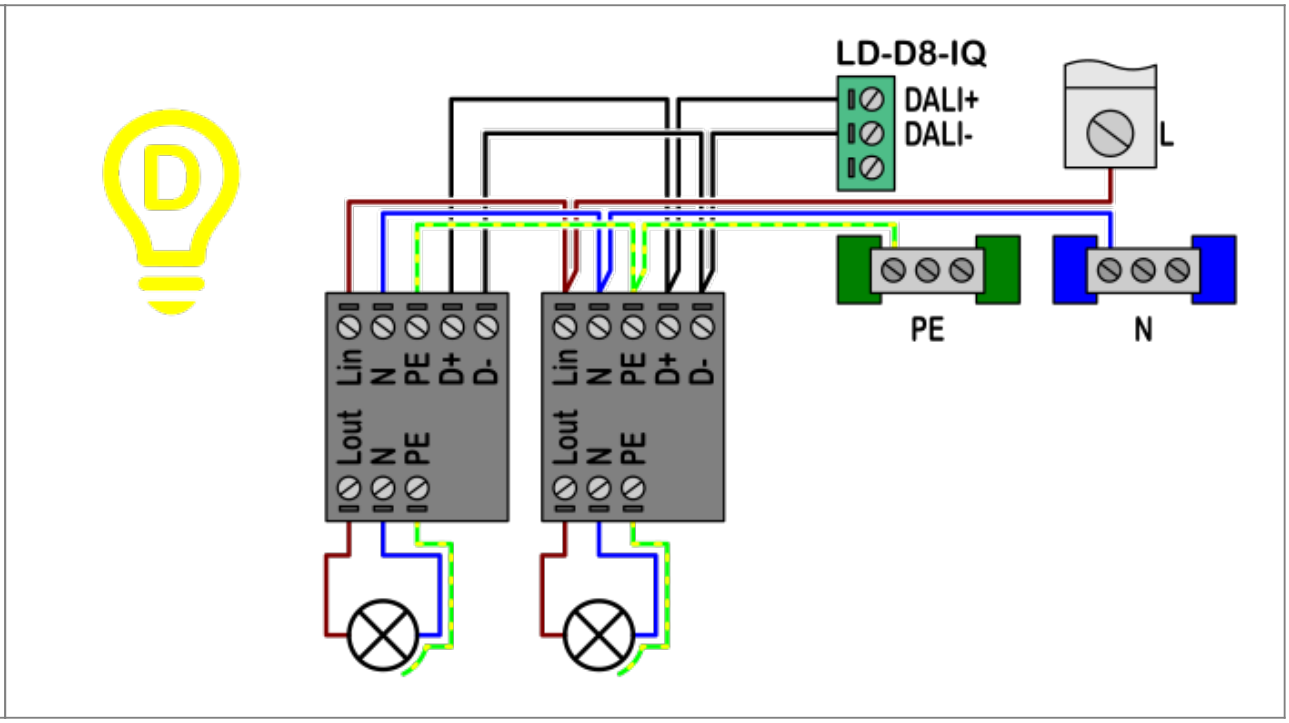
DALI dimmable lights



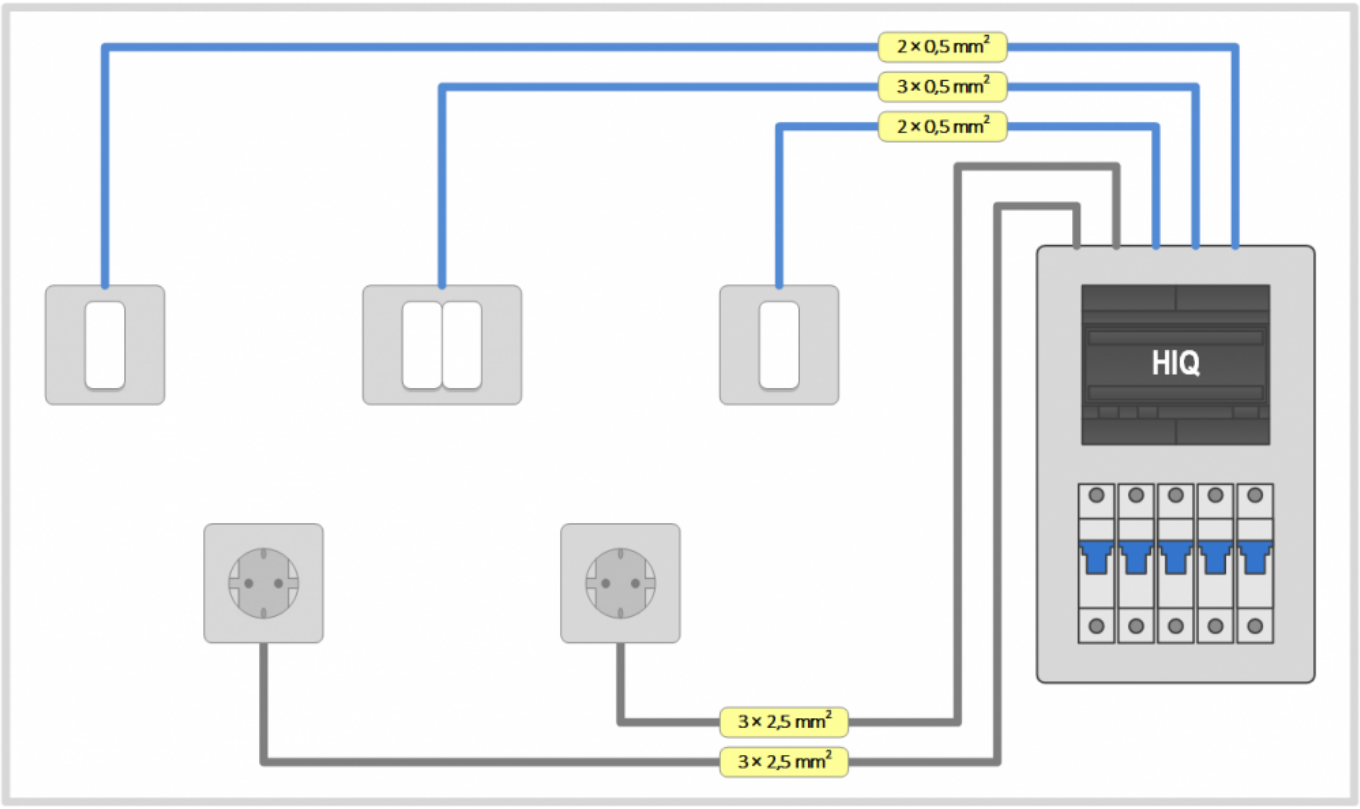
All light ballasts are wired to DALI bus with an appropriate wire gauge (usually 5 × 1,5 mm^2)

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 × 0,5 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**.

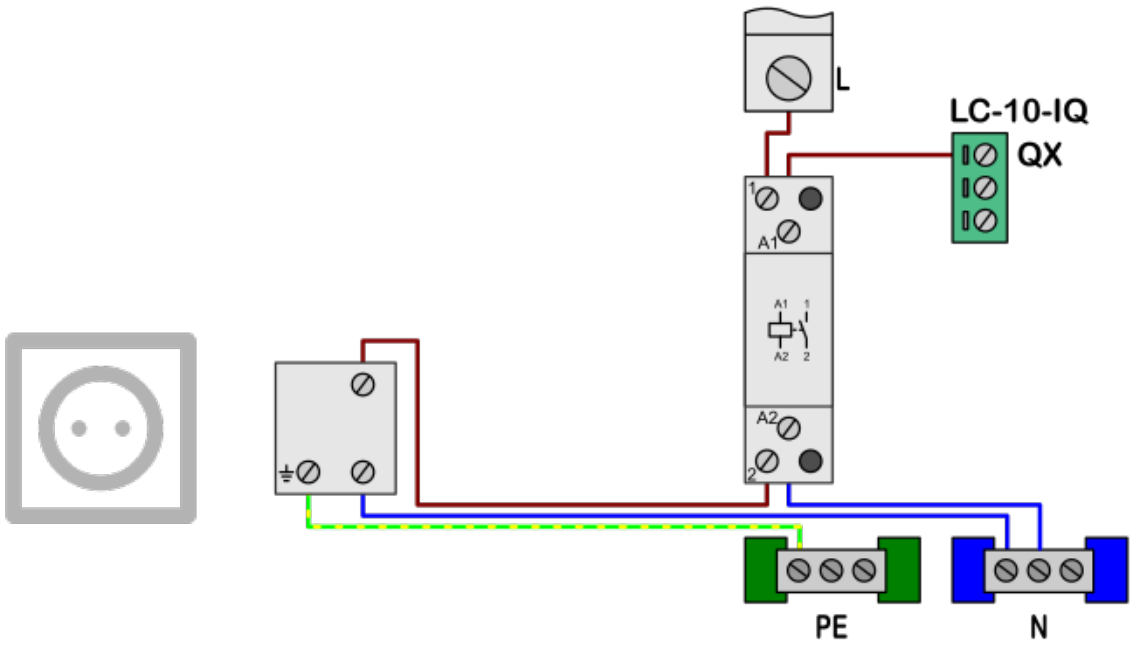
DALI Light	

Individually managed sockets

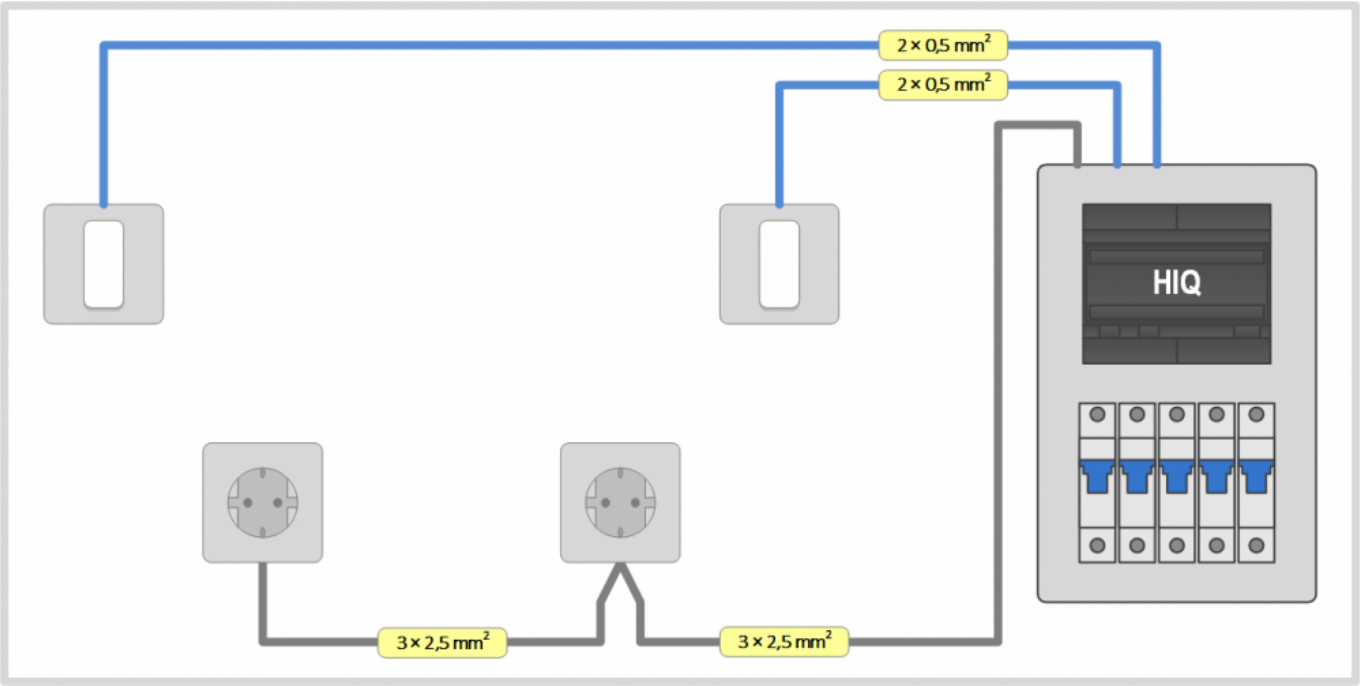


Individual sockets are wired directly to the distribution box with an appropriate wire gauge (usually 3 × 2,5 mm²)

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 3 push-buttons: 4 × 0,5 mm²)

Managed sockets	

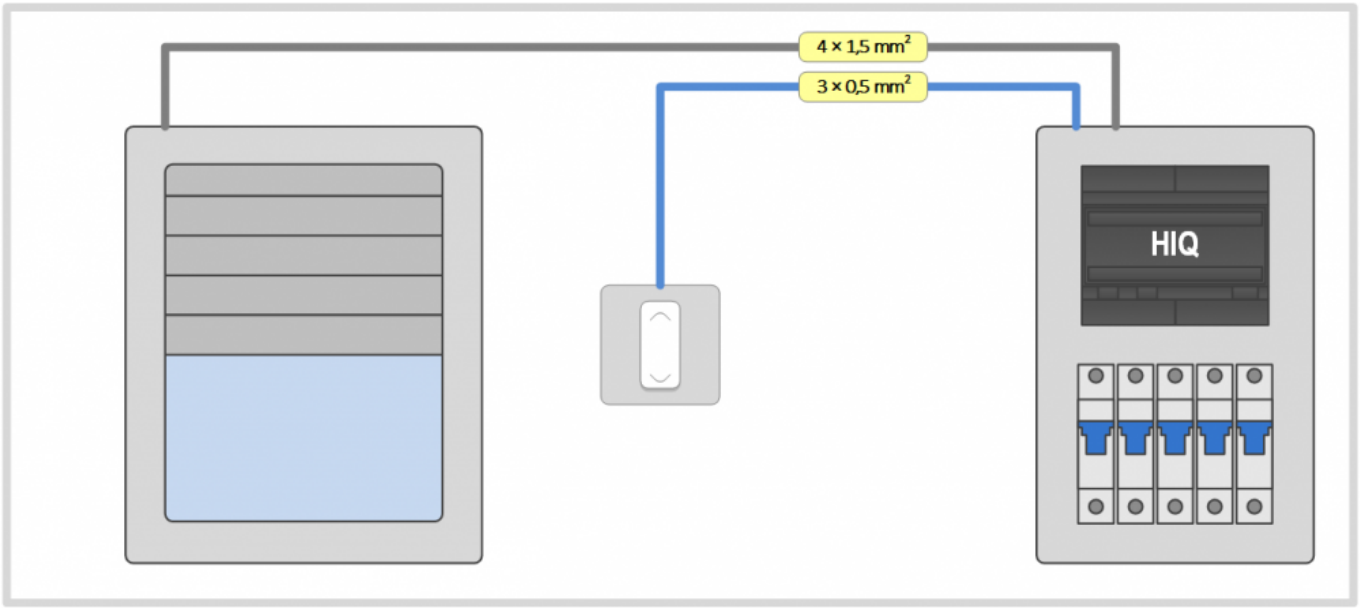
Group managed sockets



Sockets group is wired to the distribution box with an appropriate wire gauge (usually 3 × 2,5 mm^2)

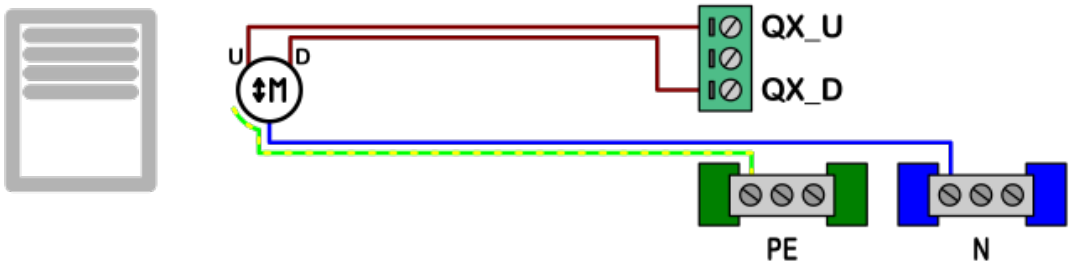
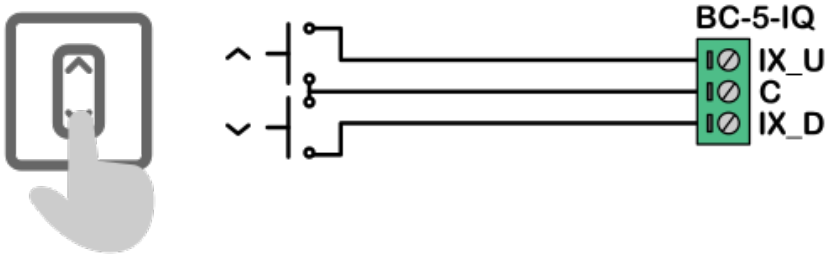
Push-button flush boxes are wired directly to the distribution box with signal wires. One wire for each push-button and one common wire (for 3 push-buttons: 4 × 0,5 mm^2)

Blinds motors

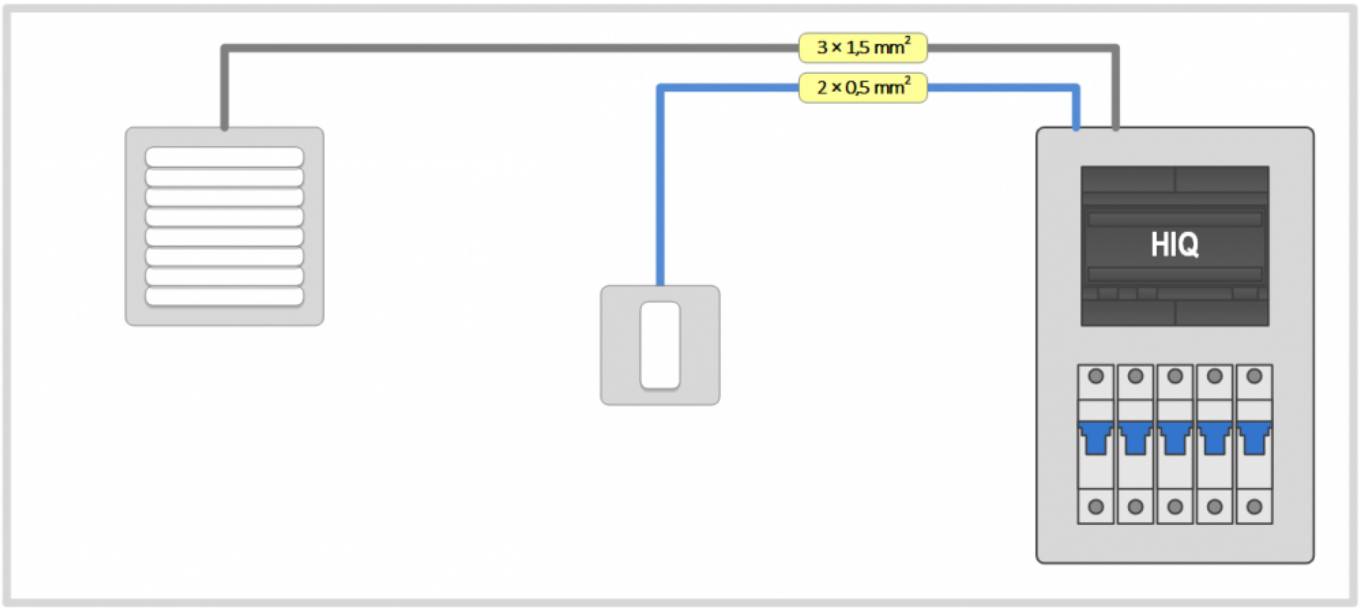


Blind motors are wired directly to the distribution box with an appropriate wire gauge (usually 4 × 1,5 mm^2)

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 2 push-buttons (up/down): 3 × 0,5 mm^2)

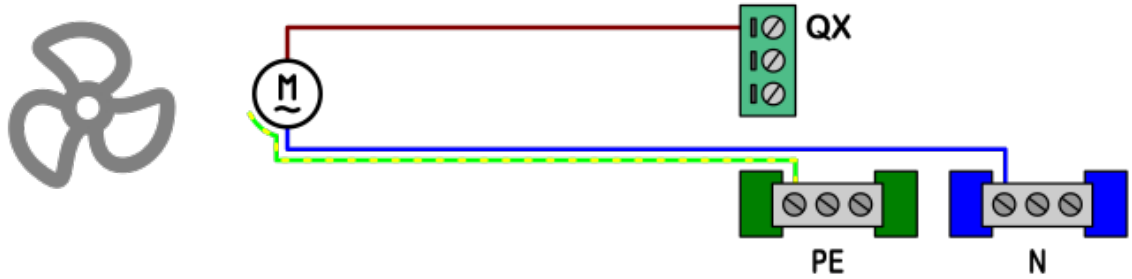
Blinds motor	
Blinds push-buttons	

Exhaust fan

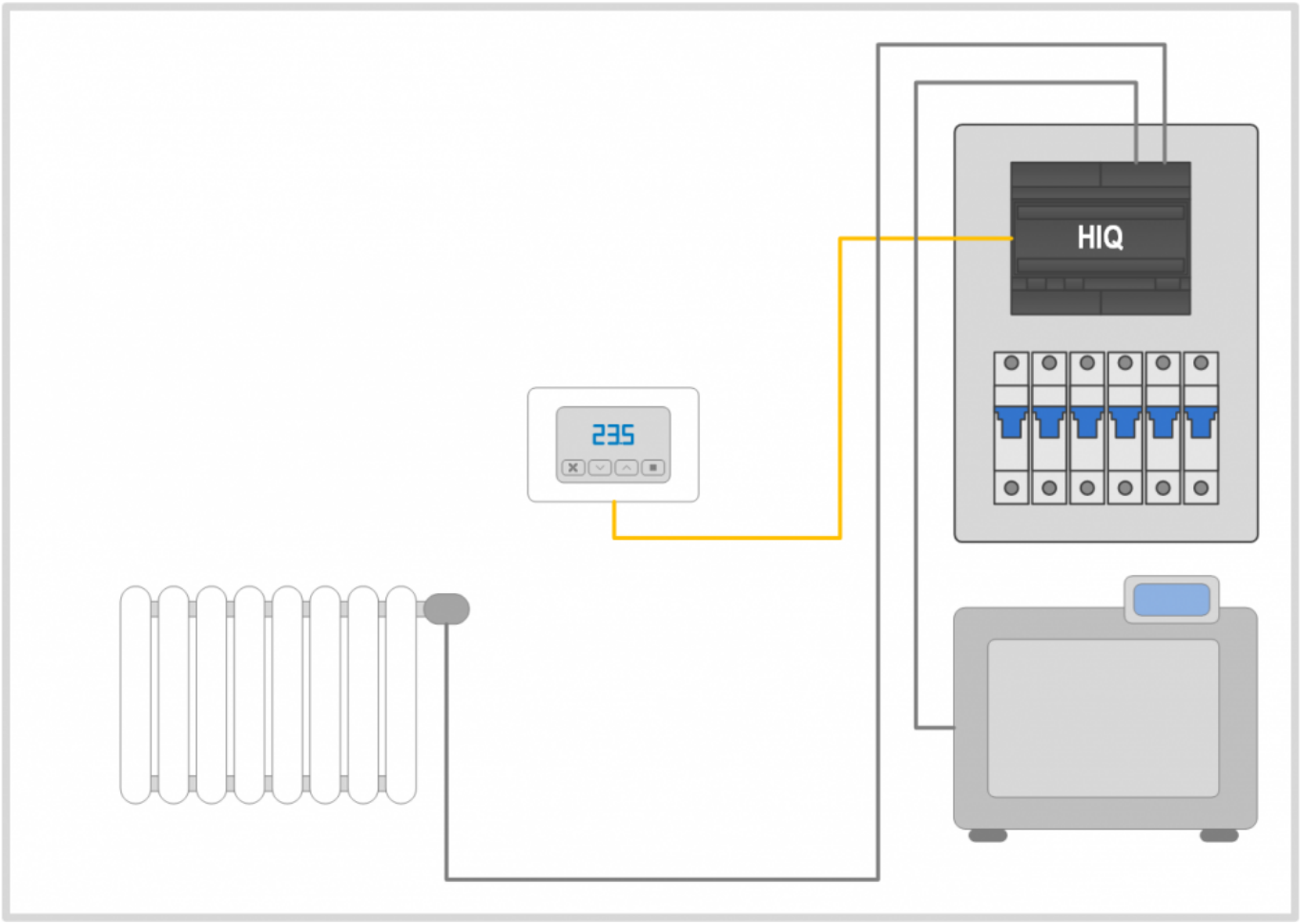


Exhaust fans are wired directly to the distribution box with an appropriate wire gauge (usually 3 × 1,5 mm^2)

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 1 push-button: 2 × 0,5 mm^2)

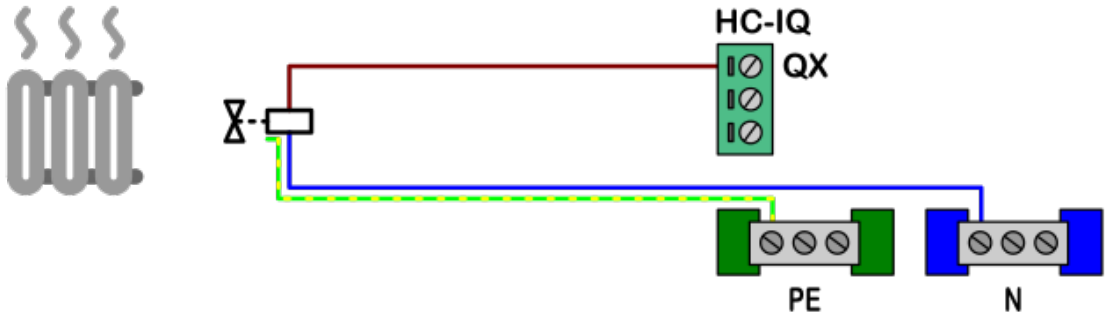
Exhaust fan motor	

HVAC

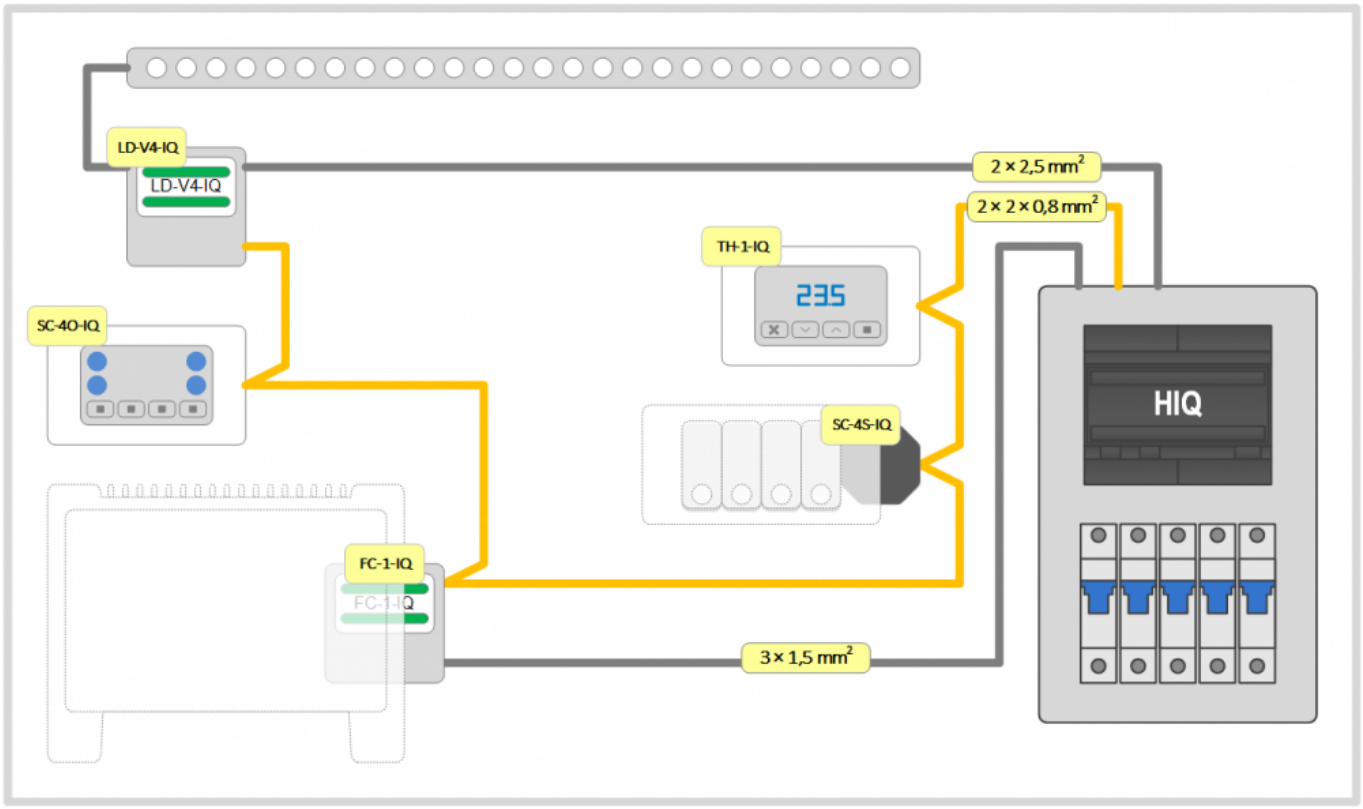


Radiator valves and boiler enable signal are wired directly to the distribution box with an appropriate wire gauge (usually 3 × 1,5 mm^2)

Thermostat is field module - see Field modules wiring.

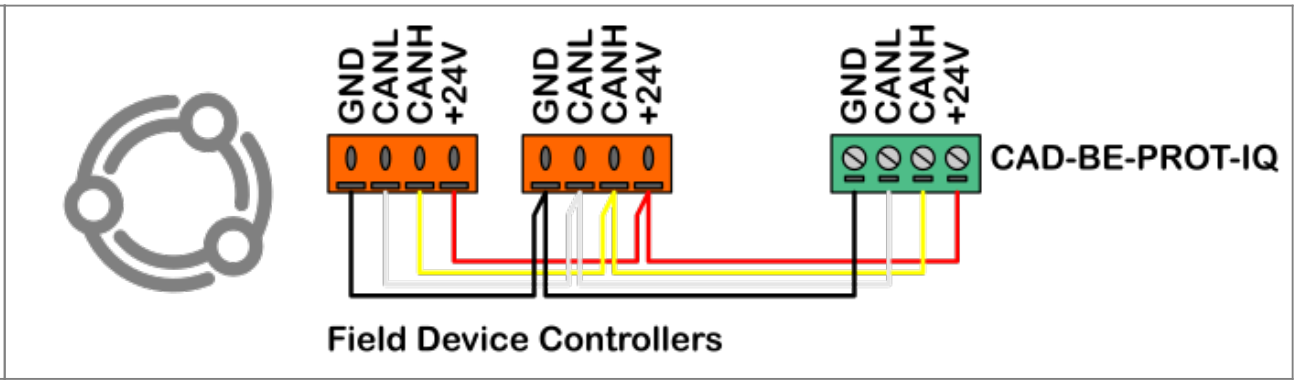
Radiator valve	

Field modules



Applies to:

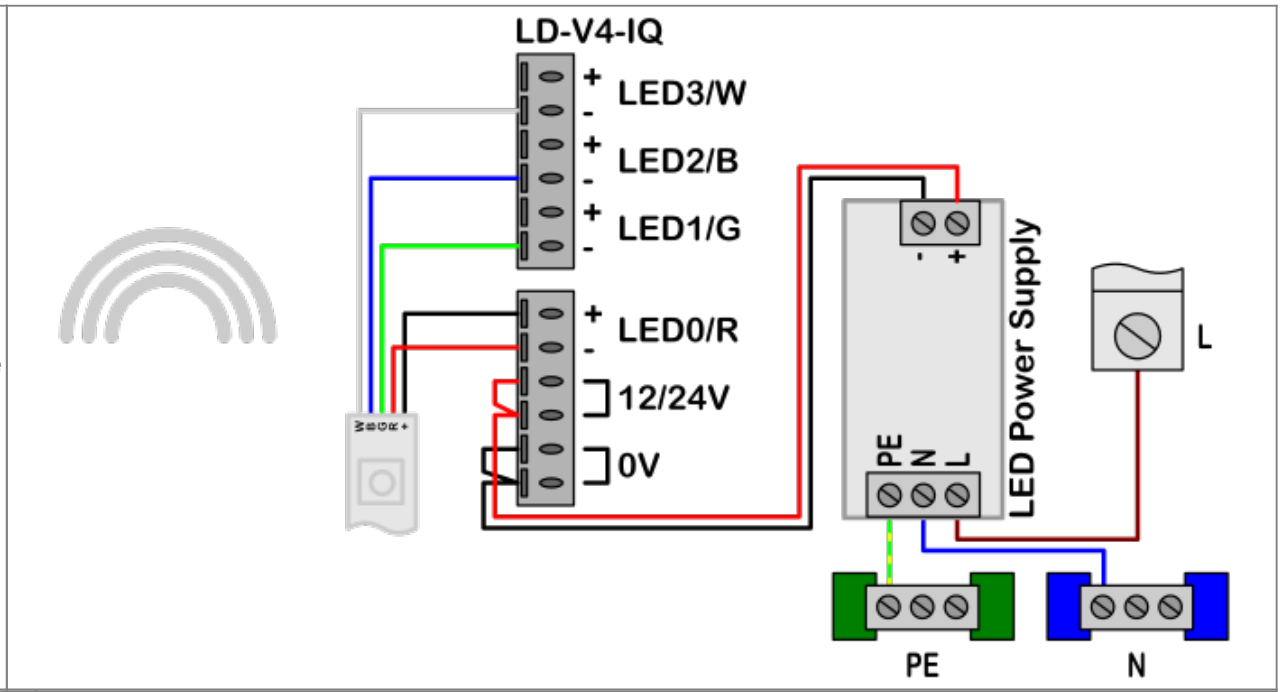
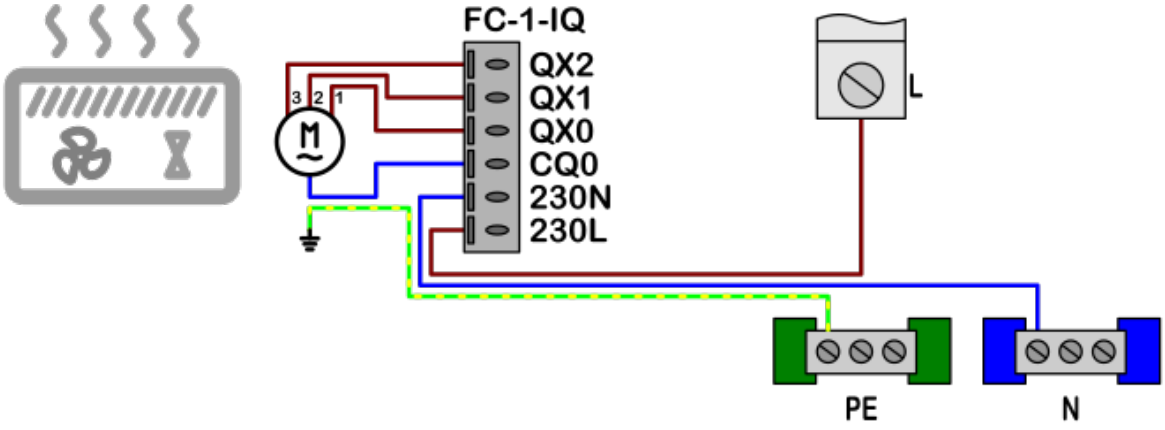
- Light controller
  - LD-V4-IQ
- Scene controllers
  - SC-4T-IQ
  - SC-4O-IQ
  - SC-4S-IQ
- HVAC controllers
  - TH-1M-IQ
  - TH-1T-IQ
  - TH-2-IQ
  - TH-3-IQ
- HVAC actuators
  - FC-1-IQ

IEX2 bus	

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

LED stripe	
Fan-Coil Fan	
Fan-Coil Valve