


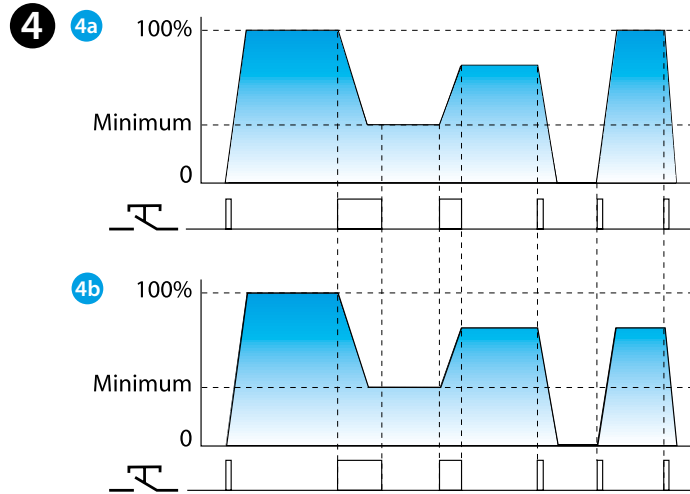
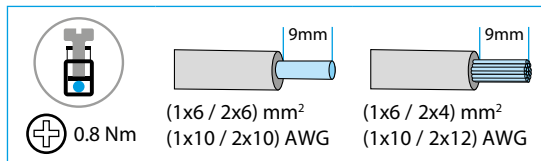
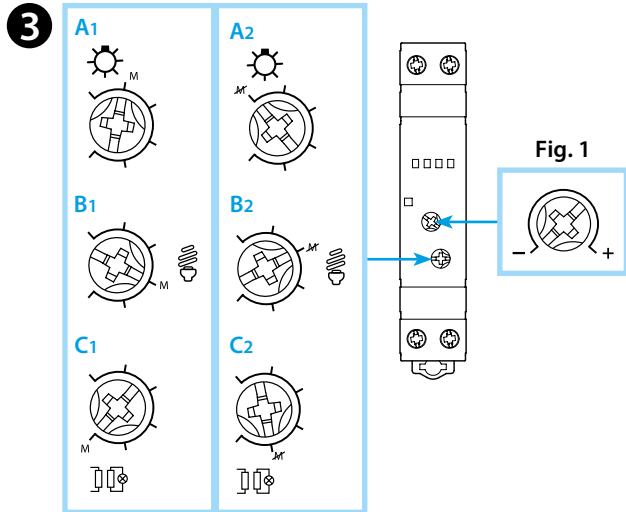
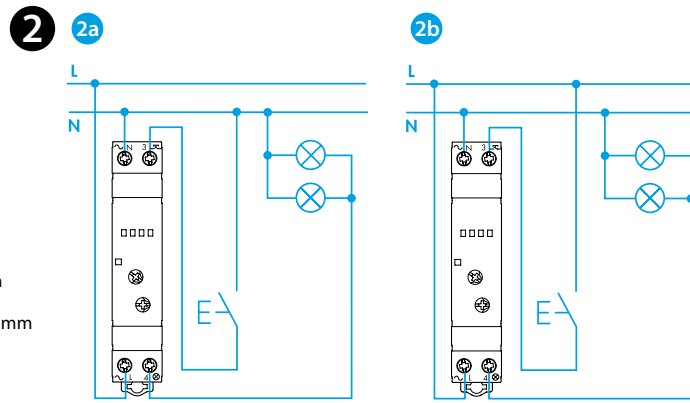
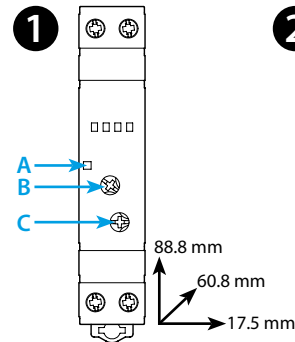




15.81

	<b>15.81.8.230.0500</b> U <sub>N</sub> 230 V AC (50/60 Hz) U <sub>min</sub> 184 V AC U <sub>max</sub> 253 V AC
	P <sub>(min - max)</sub> (3 - 500)W 230 V AC <b>CFL - LED</b> P <sub>(min - max)</sub> (3 - 100)W 230 V AC
	(-10...+50)°C
IP20	



LED	230 V AC	⊗ PROT.
—	OFF	—
	ON	—
	ON	ALARM

# ENGLISH

## 15.81 ELECTRONIC STEP RELAY AND DIMMER

### 1 FRONT VIEW

- A = LED
- B = Regulator minimum dim level
- C = Selector (lamp type/memory)

### 2 3 WIRE (2a) - 4 WIRE (2b) CONNECTION DIAGRAM

### 3 SELECTOR - set lamp type & memory mode

#### A1 (M = with memory) / A2 (M = without memory)

Incandescent lamps, 230 V halogen lamps, 12/24 V halogen lamps with electronic transformer/ballast. It is suggested to set the "minimum dimming level" (Fig.1) at the lowest value, so that the complete dimming range is available; in case of necessity (e.g. in order to avoid a too low level of illumination) it is possible to set a higher value.

#### B1 (M = with memory) / B2 (M = without memory)

Dimmable compact fluorescent lamps (CFL), dimmable LED lamps. It is suggested to initially set the "minimum dimming level" (Fig.1) at an intermediate value, and then readjust for a level found to be compatible with the lamp used.

#### C1 (M = with memory) / C2 (M = without memory)

12/24 V halogen lamps with toroidal electromagnetic transformer, 12/24 V halogen lamps with "E" core electromagnetic transformer. It is suggested to set the "minimum dimming level" (Fig.1) at the lowest value, so that the complete dimming range is available; in case of necessity (e.g. in order to avoid a too low level of illumination) it is possible to set an higher value.

### 4 FUNCTIONS

**4a Operating mode without memory:** On switch off, the light level is not memorized.

**Long control pulse:** The light level is progressively raised or lowered in linear way. The lowest level dependent on the "minimum dimming level" regulator setting.

**Short control pulse:** Alternately switches between ON and OFF, between the maximum light level and the off state.

**4b Operating mode with memory:** The previous light level is memorized.

**Long control pulse:** The light level is progressively raised or lowered in linear way. The lowest level dependent on the "minimum dimming level" regulator setting.

**Short control pulse:** Alternately switches between ON and OFF. When switching On, the light level assumes the value set during the previous On state.

### THERMAL PROTECTION (⊗ PROT) AND SIGNALLING

The internal thermal protection will detect an unsafe temperature, due to overload or incorrect installation, and will turn the dimmer output off. It is possible to turn the dimmer on, by push button, only when the temperature reduces to a safe level (after 1 to 10 minutes, depending on installation conditions) and after removing the cause of the overload. It is necessary to protect the dimmer using a 5x20mm fuse, 2.5 A 250 V rated, T type with high breaking capacity.

**NOTE.** Drive no more than 2 transformers.

With lamp load >300W (>75W CFL-LED), adequate ventilation must be provided - a gap of 9mm on both side of the dimmer is suggested.