

Features

Electronic step relay and dimmer for control of lighting levels.

- 2 versions available:
 - panel or box mount
 - 17.5 mm modular
- Use with 3 or 4 wire connection
- "Soft" On and Off transitions
- Two selectable operating modes: with or without previous light level memory
- Suitable for incandescent and halogen lighting loads (with or without transformer or electronic supply)
- Thermal protection against overload

NEW 15.51

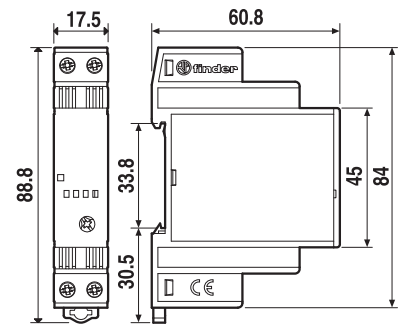
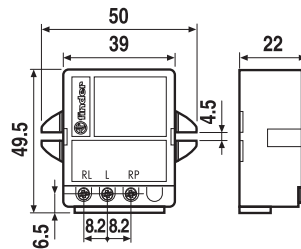


- Maximum lamp load 400 W
- Multi-function

NEW 15.61



- Maximum lamp load 500 W
- Multi-function



Output data			
Rated voltage	V AC	230	230
Power max.	(230 V) W	400	500
Power min.	(230 V) W	10	5
Nominal lamp rating: incandescent (230 V) W		400	500
	halogen (230 V) W	400	500
transformers & electronic supplies for halogen lamps	W	400	500
Supply specifications			
Nominal voltage (U _N)	V AC (50Hz)*	230	230
Operating range		(0.8...1.1)U _N	(0.8...1.1)U _N
Power stand-by	W	≤ 1	≤ 0.8
Technical data			
Ambient temperature range	°C	-10...+50	-10...+50
Protection category		IP 40	IP 40
Approvals (according to type)			

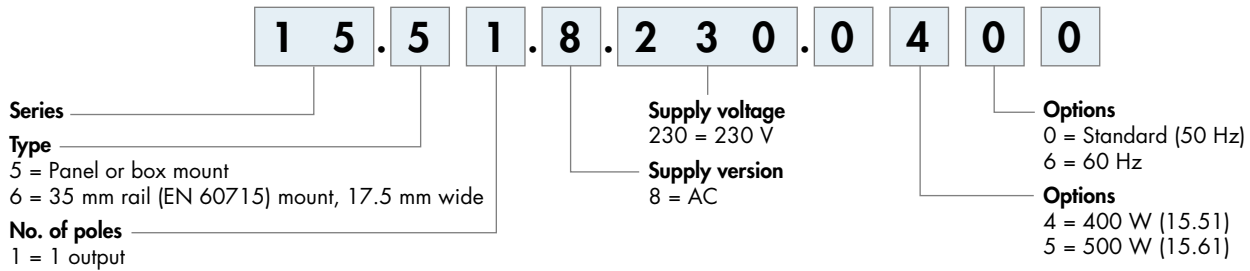
* Version for 60Hz available (see ordering information).

Note

- 1) If the lighting load comprises low voltage halogen lamps fed through either electromagnetic or electronic transformers, then do not connect more than one transformer per 15.51 dimmer or two transformers per 15.61 dimmer.
- 2) It is essential not to drive electromagnetic transformers without the lamp load connected.
- 3) For the 15.61 with load lamp > 300W, adequate ventilation must be provided - a gap of 5 mm on both side of the dimmer is suggested.
- 4) Not compatible with illuminated push-buttons.

Ordering information

Example: type 15.51, electronic step relay and dimmer, 230 V AC.



Technical data

Other data	15.51	15.61
Power lost to the environment		
without load	W 0.7	0.8
with rated load	W 2.2	2.0
Max cable length for push-button connection m	100	100
Other data		
Max. wire size	solid cable	stranded cable
	mm ² 1x6 / 2x4	1x4 / 2x2.5
	AWG 1x10 / 2x12	1x12 / 2x14
Screw torque	Nm 0.8	0.8

Thermal protection and signalling

LED (type 15.61 only)	Supply voltage	Thermal protection
	OFF	—
	ON	—
	ON	ALARM

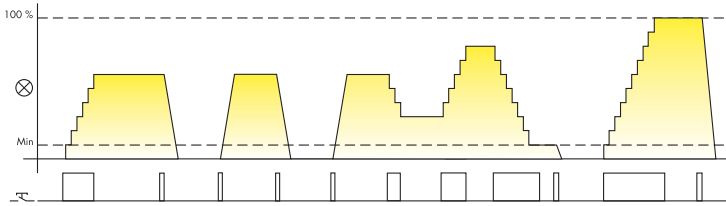
ALARM

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.

Operating modes

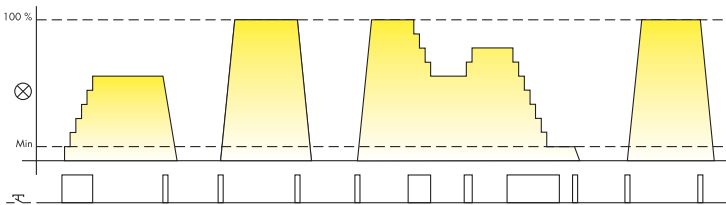
Operating mode 1 (with memory): the previous light level is memorized.



Long control pulse: The light level is progressively raised or lowered through a maximum of 10 incremental steps.

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

Operating mode 2 (without memory): on switch off, the light level is not memorized.



Long control pulse: The light level is progressively raised or lowered through a maximum of 10 incremental steps.

Short control pulse: Alternately switches On or Off between the maximum light level and the off state.

Operating mode setup.

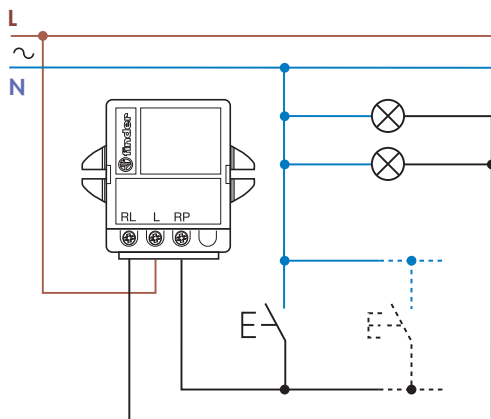
On 15.61 it is possible to select the required operating mode using the front selector.

On 15.51 operating mode 1 is preset, but it is possible to change it using the following sequence:

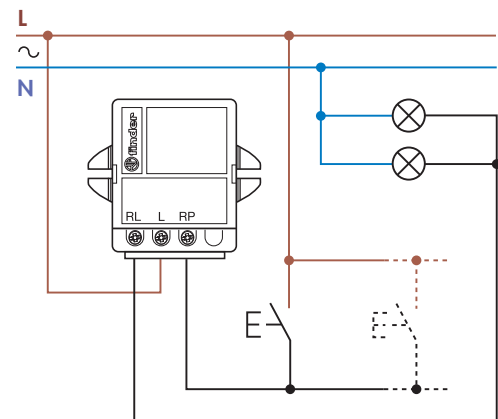
- remove the supply voltage;
 - press the control button;
 - apply the supply to the relay, keeping the button closed for 3 second;
 - On button release, the light will flash twice to indicate the selection of operating mode 2, or flash once for operating mode 1.
- Repeating the above steps will alternately change between operating modes.

Wiring diagrams

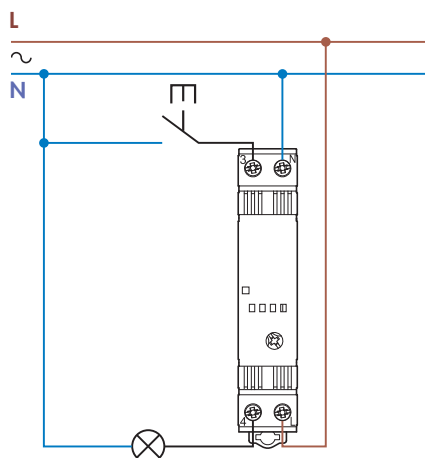
Type 15.51 - 3 wire connection



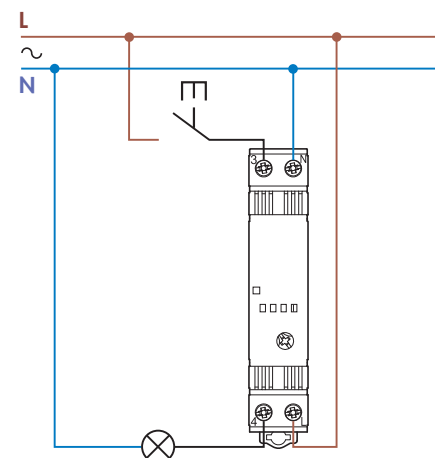
Type 15.51 - 4 wire connection



Type 15.61 - 3 wire connection



Type 15.61 - 4 wire connection



Accessories



020.01

Adaptor for panel mounting for type 15.61, 17.5 mm wide | 020.01



060.72

Sheet of marker tags for type 15.61, plastic, 72 tags, 6x12 mm | 060.72