



F&F Filipowski L.P.
Konstantynowska 79/81, 95-200 Pabianice, POLAND
phone/fax (+48 42) 215 23 83 / (+48 42) 227 09 71
www.fif.com.pl; e-mail: biuro@fif.com.pl

SCO-815

Lighting dimmer,
universal



5190831215966841

Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

The SCO-815 universal lighting dimmer allows the brightness of the following light sources to be adjusted:

- » Incandescent and halogen lamps of the main series (resistive load R); Lamps supplied by a toroidal transformer (inductive load L);
- » Lamps supplied by an electronic transformer (capacitive load C);
- » Energy-saving compact fluorescent lamps (ESL) with dimming function;
- » Energy-saving led lamps (LED) with dimming function.

Features

- » Automatic detection of the nature of the load: R+L, R+C and LED. The use of ESL lamps requires manual setting of the nature of the load using the knob on the face of the dimmer;
- » Smooth brightening and dimming to extend the life of the controlled lamp;
- » Adjustable brightening and dimming rates;
- » „Memory” of light intensity settings – after each switch-on, the lighting returns to the previously set brightness. Not applicable to ESL lamps;
- » Adjustment of the minimum illuminance level of the controlled lamp (especially important for ESL lamps, requiring minimum ignition and holding current);
- » ON mode – switching of the lighting to maximum brightness without dimming;
- » Control input galvanically isolated from the dimmer supply circuit.

Functioning

The lighting can be controlled by a number of pushbuttons connected in parallel and located at different points in the room. The receiver is switched on to the last set brightness level after a current pulse caused by pressing any momentary (bell) button connected to the relay. A short press of the button switches the lighting on. Pressing and holding the button (for more than 1 second) changes the brightness level in one direction (brightening or dimming). Each time the button is pressed again (for more than 1 second), it adjusts in the opposite direction.

Settings

"S" setting

- » ON – switching of the lighting to maximum brightness without the possibility of dimming;
- » MIN-MAX – adjustment of lighting and dimming speed of the controlled lamp (for R, L, C and LED characteristics);
- » ELS (+/-) – adjustment of lighting and dimming speed for ELS lamps only. Two setting levels: (+) – faster; (-) – slower.

"%" setting

- » MIN-MAX – setting of the minimum light level of the controlled lamps. Especially for ELS lamps, where in the lower ranges of illumination there may be a flickering effect or no illumination at all.

Mounting

1. Disconnect the power supply.
2. Place the dimmer on the rail in the switchboard.
3. Power supply to the dimmer: connect phase L to terminal 10; connect N wire to terminal 8 (7 or 9).
4. Control buttons: connect a single button or a group of parallel connected buttons between phase L (+) and terminal 1; connect the N or (-) wire to terminal 3.
5. Connect controlled lighting between terminal 12 and N wire.



SCO-815 can work with backlit buttons.



In the case of frequent overheating of the system, reduce the load (the number of receivers or their power) or ensure better ventilation.



The control input is galvanically isolated from the power supply of the dimmer.



Possibility of connecting a separate control voltage, different from the supply voltage.



Terminals 7-8-9 are connected to each other and constitute a common point N.



In some cases, the dimmer and the light source may not work properly (for example the light may flicker). This often occurs with a small load on the dimmer and the solution is usually to increase the load by, for example, attaching additional bulbs.

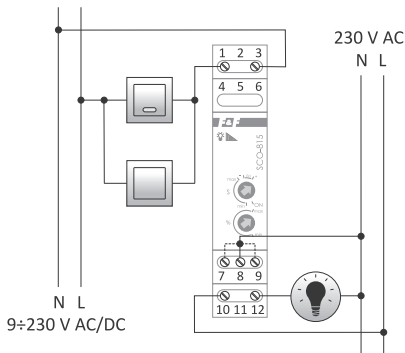


The load on the dimmer's output cannot exceed the limit values. Values given for individual lamps in the technical data in the manual.



Testing is recommended before final installation.

Wiring diagram



- 1-3 control input
- 7-8-9 N power supply
- 10 L power supply
- 12 dimmer's output

Technical data

power supply	195÷265 V AC
maximum load current (AC-1)	2 A
maximum power of connected light bulbs	
(R)	500 W
(L)	500 W
(C)	500 W
(ESL)	100 W
(LED)	100 W
control voltage	9÷230 V AC/DC
power consumption	0.1 W
terminal	2.5 mm ² screw terminals
tightening torque	0.4 Nm
working temperature	-25÷50°C
dimensions	1 module (18 mm)
mounting	on TH-35 rail
ingress protection	IP20

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.

«F&F»[®]