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EN

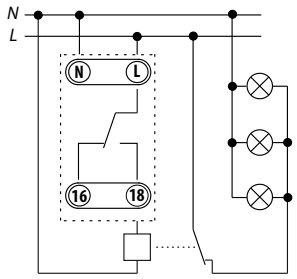
CRM-48

Emergency light tester

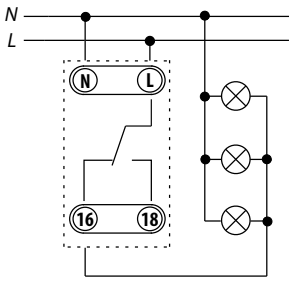
Characteristics

- Time relay for automatic testing of emergency lighting.
- Panel button for starting the test.
- Comfortable and well-arranged time delay (t) setting by rotary switch.
- Adjustable time delay 10 m – 30 m – 60 m – 90 m – 120 m – 180 m is divided into six ranges.
- ZERO CROSS feature: closes and opens the output contact when the voltage crosses zero.
- Multifunction red LED flashes or shines depending on the operating states.

Connection

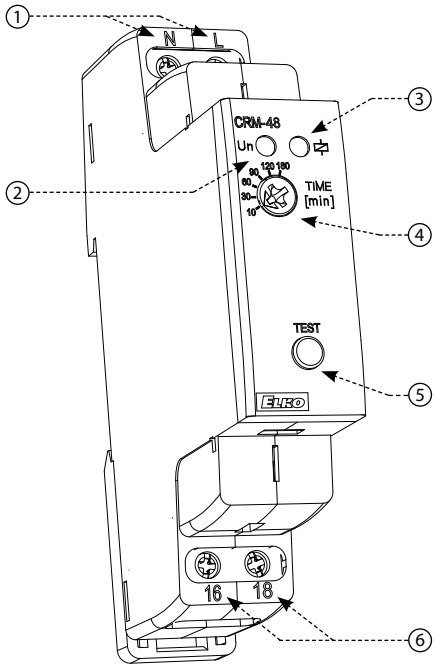


Emergency lighting connection through contactor (for I>16A)



Direct emergency lighting connection (for I<16A)

Description



1. Supply voltage terminals (N-L)
2. Supply voltage indication
3. Indication of operating states
4. Time delay (t) setting
5. Test button
6. Output contact (16-18)

Technical parameters

Power supply

Supply terminals:	L-N
Supply voltage:	AC 230 V (50-60 Hz)
Consumption (max.):	3.9 VA/1.9 W
Supply voltage tolerance:	–15 %; +10 %

Time circuit

Number of functions:	1
Time delay (t):	10 m – 30 m – 60 m – 90 m – 120 m – 180 m
Time setting:	rotary switch
Time deviation:	5 % – mechanical setting
Repeat accuracy:	0.2 % – set value stability
Temperature coefficient:	0.01 %/°C, at = 20 °C (0.01%/°F, at = 68 °F)

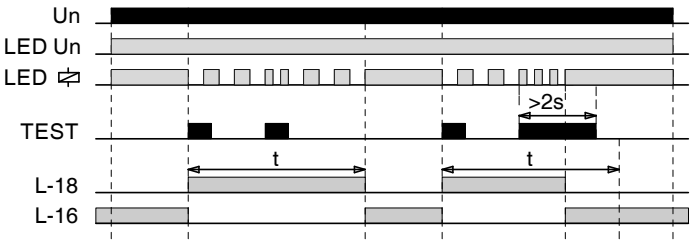
Output

Contact type:	1× changeover ($AgSnO^2$); changes the potential "L"
Current rating:	16 A/AC1; 1 HP|240 Vac, 1/2HP|120 Vac; PD. B300
Breaking capacity:	4000 VA/AC1, 384 W/DC1
Inrush current:	80 A/20 ms (NO contact)
Switching voltage:	250 V AC/24 V DC
Power dissipation (max.):	1.2 W
Mechanical life:	10.000.000 ops.
Electrical life (AC1):	20.000 ops.

Other information

Operating temperature:	–20 .. +55 °C (–4 .. 131 °F)
Storage temperature:	–30 .. +70 °C (–22 .. 158 °F)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP40 front panel / IP20 terminals
Overvoltage category:	III.
Pollution degree:	2
Cross-wire section – solid/ stranded with ferrule (mm^2):	max. 1× 2.5, 2× 1.5/ max. 1× 2.5 (AWG 14)
Dimensions:	90 × 17.6 × 64 mm
Weight:	53 g
Standards:	EN 61812-1

Function



If the supply voltage is connected, the green LED Un lights up and at the same time the red LED indicates that the idle output contact "16" is closed. Pressing the TEST button on the device panel closes the output contact "18" and disconnects the phase wire "L" from the tested emergency lights.

After the set time delay (t) has elapsed, output contact "18" opens and emergency lighting is connected through contact "16". During the delay, the red LED flashes slowly.

Repeated short pressing of the TEST button does not affect the length of the delay. A long press of the TEST button (>2 s) ends the delay. While pressing the button, the red LED flashes quickly.

Warning

Device is constructed for connection in 1-phase network AC 230 V and must be installed according to norms valid in the state of application. Connection according to the details in this direction. Installation, connection, setting and servicing should be installed by qualified electrician staff only, who has learnt these instruction and functions of the device. This device contains protection against overvoltage peaks and disturbancies in supply. For correct function of the protection of this device there must be suitable protections of higher degree (A, B, C) installed in front of them. According to standards elimination of disturbancies must be ensured. Before installation the main switch must be in position "OFF" and the device should be de-energized. Don´t install the device to sources of excessive electro-magnetic interference. By correct installation ensure ideal air circulation so in case of permanent operation and higher ambient temperature the maximal operating temperature of the device is not exceeded. For installation and setting use screw-driver cca 2 mm. The device is fully-electronic - installation should be carried out according to this fact. Non-problematic function depends also on the way of transportation, storing and handling. In case of any signs of destruction, deformation, non-function or missing part, don´t install and claim at your seller it is possible to dismount the device after its lifetime, recycle, or store in protective dump.