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CRM-4

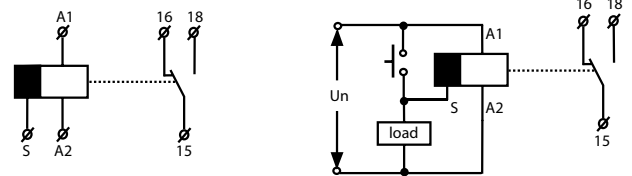
Staircase switch



Characteristics

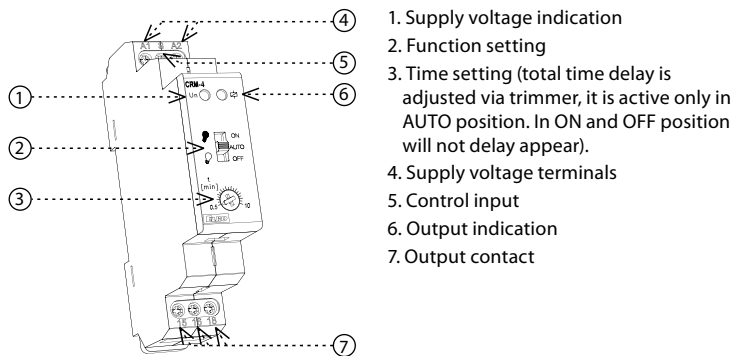
- designated for delay OFF function of lights on stairs, corridors, entrances or for delay OFF function of ventilators (WC, bathrooms, etc.)
- device is controlled by button or by several buttons from more places (connected in parallel), buttons can be equipped with glow lamps
- output relay contact 16 A / AC1 with surge current up to 80 A enables switching of el. bulbs and fluorescent lights.
- operating switch:
 - AUTO - normal function according to set time
 - OFF - OFF (e.g. when changing bulbs) permanent
 - ON - permanent ON (e.g. while cleaning, servicing)
- time range: 0.5 - 10 min
- time setting by potentiometer
- supply voltage: AC 230 V
- protection against button blocking (e.g. safety - match stacked in a button)
- 1- MODULE, DIN rail mounting

Symbol



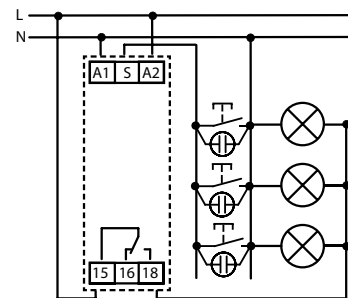
It is possible to connect load between S-A2 terminals (e.g. contactor, light indicator or any other device), without disturbing a correct function of relay (load is energized while the switch is ON).

Description

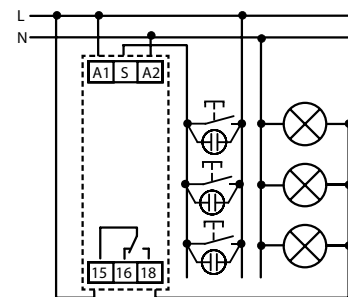


Connection

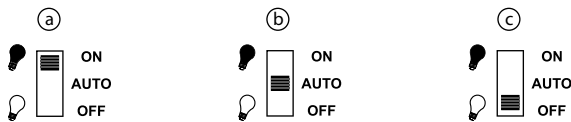
3-wire connection



4-wire connection



Operating switch



- Operating switch in ON position = permanent switch ON of relay contacts. This position is used for cleaning, servicing and detcting of malfunctions connected with load (faulty bulbs).
- In this position device is set into operating status and operates according to diagram and pre-set time.
- In OFF position functions and time are out of order and device is in quiescent status. This position is used for bulbs exchange etc.

Type of load	$\cos \varphi \geq 0.95$								
Mat. contacts AgSnO ₂ contact 16A	AC1 250V / 16A	AC2 250V / 5A	AC3 250V / 3A	AC5a uncompensated 230V / 3A (690VA)	AC5a compensated 230V / 3A (690VA) to max. input C=14uF	AC5b 1000W	AC6a x	AC7b 250V / 3A	AC12 x
Type of load									
Mat. contacts AgSnO ₂ contact 16A	AC13 x	AC14 250V / 6A	AC15 250V / 6A	DC1 24V / 10A	DC3 24V / 3A	DC5 24V / 2A	DC12 24V / 6A	DC13 24V / 2A	DC14 x

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Function:	delay off reacting to control contact switching
Supply terminals:	A1 - A2
Supply voltage:	AC 230 V / 50 - 60 Hz
Consumption:	AC max. 12 VA / 1.8 W
Supply voltage tolerance:	-15 %; +10 %
Supply indication:	green LED
Time ranges:	0.5 - 10 min
Time setting:	potentiometer
Time deviation:	10% - mechanical setting
Repeat accuracy:	5 % - set value stability
Temperature coefficient:	0.05 % / °C, at = 20 °C (0.05 % / °F, at = 68 °F)

Output

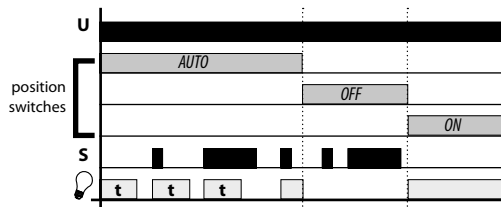
Changeover contacts:	1x changeover (AgSnO ₂)
Rated current:	16 A / AC1
Switching capacity:	4000 VA / AC1, 384 W / DC
Inrush current:	30 A / <3 s
Switching voltage:	250 V AC1 / 24 V DC
Output indication:	red LED
Mechanical life:	3x10 ⁷
Electrical life (AC1):	0.7x10 ⁵

Control

Control voltage:	AC 230 V
Power on input:	AC 0.53 VA
Load between S-A2:	yes
Control. terminals:	A1-S
Glow-tubes:	yes
Max. amount of glow lamps connected to controlling input:	max. amount 35 pcs (measured with glow lamp 0.68 mA / 230 V AC)
Impulse length:	min. 25 ms / max. unlimited
Reset time:	max. 150 ms

Other information

Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)
Electrical strength:	4 kV (supply - output)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP40 from front panel / IP20 terminals
Overvoltage category:	III.
Pollution degree:	2
Max. cable size (mm ²):	solid wire max. 1x 2.5 or 2x 1.5 / with sleeve max. 1x 2.5 (AWG 12)
Dimensions:	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")
Weight:	62 g (2.2 oz.)
Standards:	EN 60669-2-3, EN 61010-1



Warning

Device is constructed for connection in 1-phase AC 230 V main alternating current voltage 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 disturbances 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 disturbances 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.