

Staircase switch CRM-4

Advantages

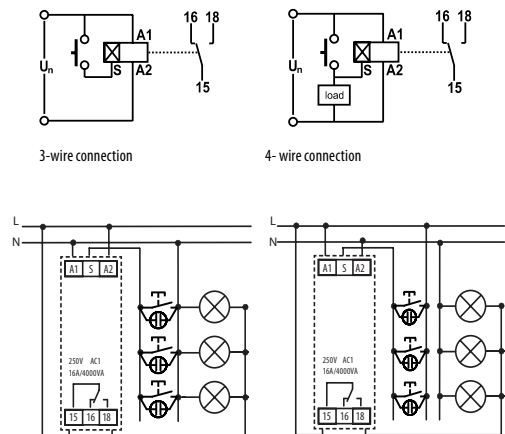
- // 1-module, DIN rail mounted
- // Supply voltage: AC 230 V
- // Protection against control push-button blocking
- // Time range: 0,5 - 10 min
- // Selector switch:
 - // AUTO: normal function acc. to set time

- // OFF: permanent off
- // ON: permanent on
- // Time setting via potentiometer
- // Output contact: 1x 16 A changeover (load up to 4000 VA/AC1)

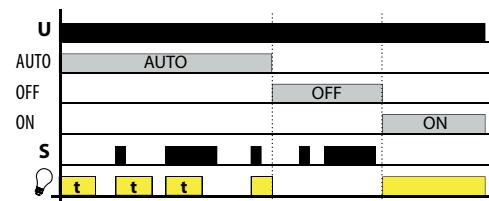
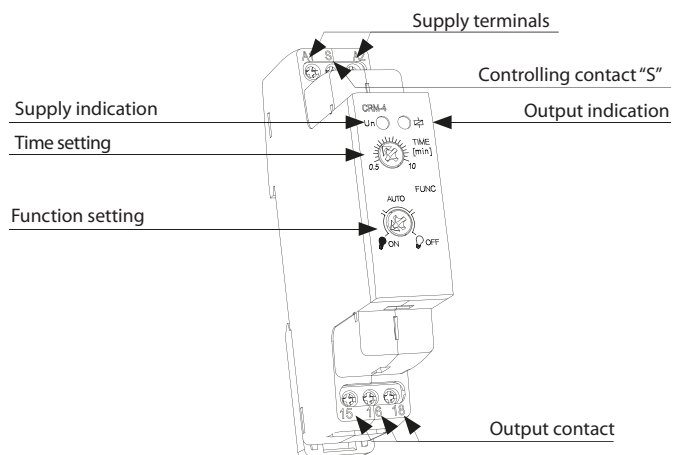
Technical data

Function	delay OFF
Supply	A1-A2
Supply voltage	230 V AC/50-60 Hz
Consumption	max. 12 VA AC/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 -> 20 °C
Output	
Changeover contacts	1
Rated current	16 A / AC1
Breaking capacity	4000 VA / AC1, 384 W / DC
Inrush current (duty factor 10%)	30 A / <3 s
Switching voltage	250 V AC1 / 24 V DC
Min. breaking capacity DC	500 mW
Output indication	red LED
Mechanical life	3x10 ⁷
Electrical life	0,7x10 ⁵
Controlling	
Control. voltage	230 V AC
Consumption of input	0,53 VA AC
Load between S-A2	✓
Glow-tubes	yes, max. 20 pcs. (at 1 mA)
Control. terminals	A1-S
Impulse length	min. 25 ms/max. unlimited
Reset time	max. 150ms
Operating temperature	-20...+55 °C
Storage temperature	-30...+70 °C
Electrical strength	4 kV (supply - output)
Operating position	any
Mounting	DIN rail EN 60715
Protection degree	IP 40 from frontal panel
Overvoltage category	III
Pollution degree	2
Max. cable size	2,5 mm ²
Dimensions	90x17, 6x64 mm
Standards	EN 60669-2-3, EN 61010-1

Connection



Description

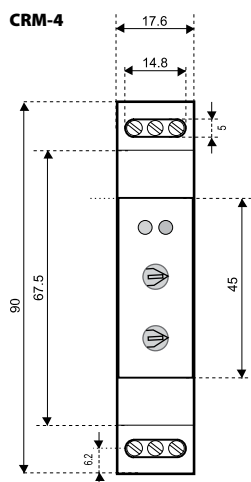


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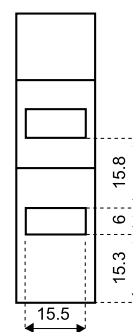
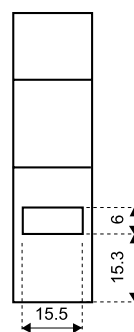
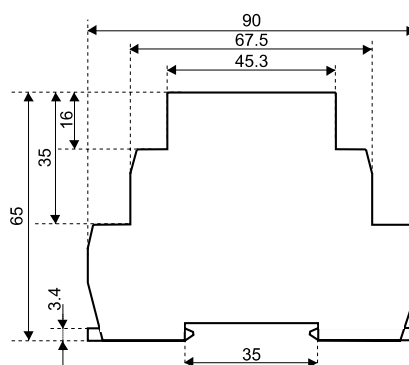
Type	I _n [A]	Code No.		
CRM-4	16	002470012	53	1/10



Dimensions



1-module design



Programmable staircase switch CRM-47

- /// Staircase switch enables delayed switching off of lighting on stairs, corridors, entrances, common areas or for delayed running of fans in the toilet or bathroom.
- /// The programmable staircase switch offers similar application possibilities as the CRM-4, while it is possible to extend the delay for functions a, b repeatedly by briefly pressing the control button (buttons). Each short press multiplies the time set by the potentiometer, i.e. setting the potentiometer to 2 minutes with three presses extends the delay up to 6 minutes. The maximum value of such an extended delay will always be 30 minutes, regardless of the number of presses.
- /// Long press (>2 s) can switch off the output prematurely and end the ongoing delay.
- /// Control input with the possibility of loading up to 100 mA load (glow lamp, LED in the button, etc.).
- /// Function (selectable by potentiometer on the front panel)
 - a – STAIRCASE SWITCH, programmable with signalization
 - b – STAIRCASE SWITCH, programmable without signalization
 - c – MEMORY LATCH (press to switch on, press to switch off)
 - d – MEMORY LATCH with delay:
 - ✓ ON (permanently closed) - e.g. during cleaning, moving
 - ✓ OFF (permanently open) - e.g. when replacing luminaires.
- /// ZERO CROSS feature: closes the output contact when the voltage crosses zero.
- /// Adjustable time delay (t) 0.5 – 10 m.
- /// Handles surge currents up to 80 A.
- /// 3-wire or 4-wire connection (input S can be controlled by A1 potential)

Product loadability

Valid for following products: CRM-4, SHT-1, MR-41, MR-42, SOU-1, SHT-1/2, SHT-3, SHT-3/2, CRM-42, SMR-B

Load									
relay contact 16 A						AC1	AC3	AC15	DC1 (24/110/220 V)
AgSNO ₂	2000 W	1000 W	1000 W	750 W	500 W	4000 VA	0,9 kW	750 VA	16A/0,5A/0,35A

Valid for following products: CRM-93H, SOU-2, HRN-54, HRN-54N, PRI-51, TER-9

Load									
relay contact 8 A						AC1	AC3	AC15	DC1 (24/110/220 V)
AgNi	500 W	x	x	x	x	2000 VA		375 VA	8A/0,4A/0,25A

Valid for following products: CRM-91H, CRM-2H, CRM-2T, HRN-33, HRN-34, HRN-35, TER-3

Load									
relay contact 16 A						AC1	AC3	AC15	DC1 (24/110/220 V)
AgNi	1000 W	x	x	x	x	4000 VA	0,9 kW	750 VA	16A/0,5A/0,35A

Thermal sensor TZ

Temperature sensors are made of thermistor NTC embedded in a metal sleeve by thermo-conductive sealer (TZ)
Sensor TZ:

- ▀ cable V03SS-F 2Dx0,5mm with silicon insulation
- ▀ suitable mainly for use in extreme temperatures

Technical parameters TZ

Range:	-40...+125°C
Scanning element:	NTC 12K 2%
In air/in water:	(t65) 62s/8s
In air/in water:	(t95) 216s/23s
Cable material:	silicone
Terminal material:	nickel-couted copper
Protection degree:	IP 67
Protection class:	II (double insulation)

Resistive values in dependance on temperature

Temperature (°C)	Sensor NTC (kΩ)
20	14,7
30	9,8
40	6,6
50	4,6
60	3,2
70	2,3

TZ: Thermal sensors for range -40...+125°

TZ-0 - Thermo sensor can be connected directly to terminal block (length of the sensor 110mm)

TZ-3 - Temperature sensor 3m, double isolation silicone

TZ-6 - Temperature sensor 6m, double isolation silicone

TZ-12 - Temperature sensor 12m, double isolation silicone

Thermal sensors TZ

Type	length of sensor cable [A]	Code No.		
sensor TZ-0	0,11 m.	002471809	4,5	1
sensor TZ-3	3m.	002471810	103	1
sensor TZ-6	6m.	002471811	216	1
sensor TZ-12	12 m.	002471812	418	1

