

Programmable staircase switch CRM-47

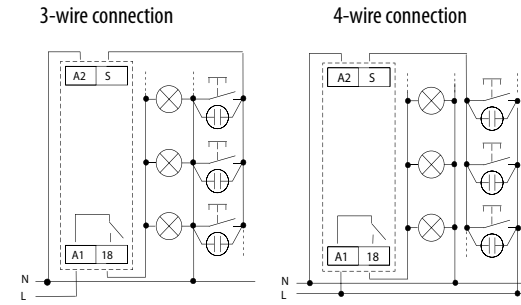
- // Staircase switch enables delayed switching off of lighting on stairs, corridors, entrances, common areas or for delayed running of fans in the toilet or bathroom.
- // The programmable staircase switch offers similar application possibilities as the CRM-4, while it is possible to extend the delay 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)

Technical data

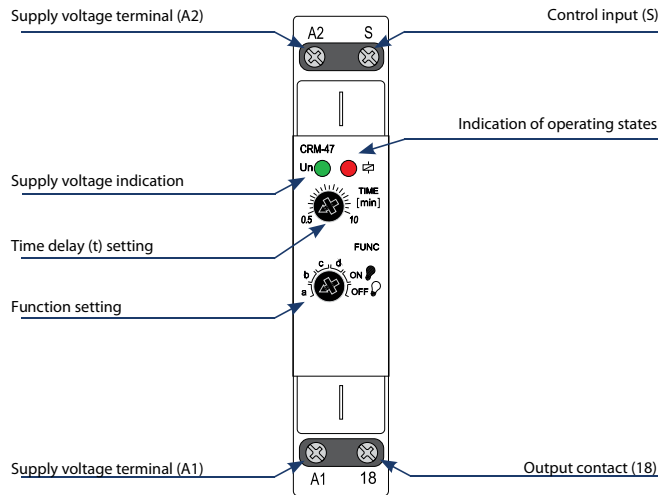
CRM-47	
Power supply	
Supply terminals	A1-A2
Supply voltage	230 V AC / 50-60Hz
Consumption	max. 3VA AC / 1.6 W
Time circuit	
Number of functions	6
Time delay (t)	0.5 - 10 min (prog. 30 min)
Time setting	rotary potentiometer
Time deviation	5%-mechanical adjustment
Repeat accuracy	0,2%-set value stability
Temperature coefficient	0.01 % / °C, at = 20 °C
Output	
Number of contacts	1× closing (AgSnO ₂); closes potential "A1"
Rated current	16 A / AC1
Breaking capacity	4000 VA / AC1, 384W / DC
Inrush current	30A / < 3s.
Switching voltage	max. 250 V AC / 24 V DC
Power dissipation	max. 1,2 W
Mechanical life	10 ⁷
Electrical life (AC1)*	10 ⁵
Control	
Control Voltage	230 V AC
Power the control input max.	4.5 VA / 0.3 W
Glow lamp connection	✓
Max. current of connected glow lamps	100 mA
Control terminals	A1-S / A2-S
Impulse length	min 40ms. / max.unlimited
Reset time	max. 320 ms.
Other data	
Operating temperature	-20...+55 °C
Storage temperature	-30...+70 °C
Operating position	any
Mounting	DIN rail EN 60715
Protection degree	IP 40 from front panel / IP20 terminals
Overvoltage category	III.
Pollution degree	2
Max. cable size	
- Solid wire max.	1x2,5 mm ² / 2x1,5 mm ²
- stranded with ferrule max.	1x2,5 mm ²
Dimensions	90 x 17,6 x 64 mm
Standards	EN 61812-1

* For higher loads and frequent switching, it is recommended to strengthen the relay contact with a contactor



Connection



Description



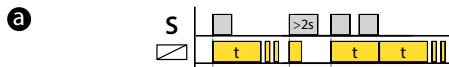
Programmable staircase switch CRM-47

Type	I _n [A]	Code No.	 g	
CRM-47 230	16	002470304	70	1/10



Functions

When switching between functions, the red LED flashes.



STAIRCASE SWITCH, programmable with signalization

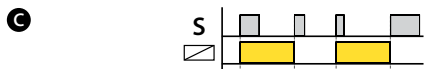
The device times the set time, 30 and 40s before the end of the time by double flashing of the luminaire announces the impending switch-off. You can increase the time interval by briefly pressing the button repeatedly. Suitable for resistive loads (e.g. bulbs).



STAIRCASE SWITCH, programmable without signalization

The device will time the set time without flashing at the end of the interval. You can increase the time interval by briefly pressing the button repeatedly.

The function is suitable for loads that can withstand frequent switching on and off (e.g. energy saving lamps, LED bulbs).



MEMORY LATCH (press to switch on, press to switch off)

By pressing the button the output relay closes and by pressing again the relay opens.

This function is primarily intended for locations where long-term lighting (without timing) is desirable and the unit is controlled from multiple locations (e.g. in office buildings).



MEMORY LATCH with delay

Pressing the button switches the output on/off. If the output is not turned off during the set time "t", it turns off automatically after the timer. This function is suitable for places where lighting is often forgotten (e.g. toilets, corridors, cellars).