

Programmable staircase switch CRM-42



Advantages

- 1-module, DIN rail mounted.
- Supply voltage: AC 230 V
- Intelligent staircase switch, the same use as CRM-4, but with increased possibility of control. In mode "PROG" it is possible to select the time of delayed OFF by number of button-pressing sequences. Each pressing multiplies the time set by potentiometer, which that the time is set to 5 min and the button is pressed on 3 times, the output is automatically prolonged to 15 min. The output can also be switched off earlier (reset) by a long pressing of button (longer than 2 sec)
- Output relay contact 16A/AC1 with inrush current up to 80 A enables switching of electrical bulbs and also fluorescent lights.
- Selector switch:
 - ON - Output permanent ON
 - AUTO - timing according to adjusting by potentiometer in range of 30 s - 10 min
 - PROG - timing with time prolongation option by a number of button pressing
- Timing (in mode AUTO and PROG) can be stopped by long pressing of the button (longer than 2 sec)
- Output indication: multifunctional red LED, flashing at certain states
- Possibility to connect up to 100 buttons equipped with glow lamps (up-to 100mA)
- 3-wire or 4-wire connection (it is possible to control input S by potential A1 or A2)
- Warning before switch OFF- output double flash 40 and 30 sec before switch OFF

Programmable staircase switch CRM-42

Type	In [A]	Code No.	Weight [g]	Packaging [pcs]
CRM-42	16	002470078	65	1/10

Digital time switch SHT-1, SHT-1/2, SHT-3 and SHT-3/2



Advantages

- 2-modules, DIN rail mounting
- Daily, weekly program in one device (SHT-1; SHT-1/2)
- Daily, weekly, monthly, yearly program (SHT-3, SHT-3/2)
- Supply voltage AC230 V or AC/DC 12-240 V
- Switching: according to the program (AUTO)/constantly manual/manually until next program change/random (CUBE)
- Automatic conversion summer /winter time
- Sealable cover of the front panel
- 100 memory places, clear LCD display
- Min. interval 1s
- Pulse/cyclic output
- Output contact: 1x 16A changeover → SHT-1, SHT-3.
- Output contact: 2x 16A changeover → SHT - 1/2, SHT-3/2.

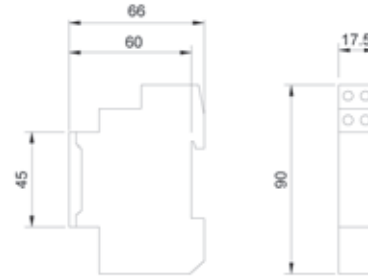
Digital time switch SHT-1 and SHT-1/2

Type	I _n [A]	Code No.	Weight [g]	Packaging [pcs]
SHT-1 UNI	16	002470051	130	1
SHT-1 230V	16	002470050	110	1
SHT-1/2 UNI	16	002470054	130	1
SHT-1/2 230V	16	002470053	110	1
SHT-3 UNI	16	002470056	110	1
SHT-3 230V	16	002470055	130	1
SHT-3/2 UNI	16	002470058	110	1
SHT-3/2 230V	16	002470057	130	1

Analog electromechanical time switch APC-D1, APC-DR1

Technical data		
	APC-DR1	APC-D1
Supply voltage	230V AC	230V AC
Power reserve	yes (100 hrs)	no
Dial/minimum switching time	15 min	15 min
Operating accuracy	+/- 1s/day at 22°C	+/- 1s/day at 22°C
Program	Daily	Daily
Output contact	1 x NO	1 x NO
Switching capability	16A 125/250V AC1	16A 125/250V AC1
Power consumption	0,5W	0,5W
Operating temperature	-25...+55°C	-10...+45°C
Mounting	DIN rail EN 60715	DIN rail EN 60715
Protection category	IP20	IP20
Overvoltage category	II.	II.
Dimensions	90 x 17,5 x 66	90 x 17,5 x 66
Standards	EN 60730-2-7	EN 60730-2-7

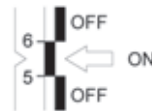
Dimensions



Connection



Programming



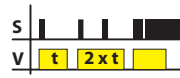
Multifunction relays SMR-T, SMR-H, SMR-B

Technical data			
	SMR-T	SMR-H	SMR-B
Number of functions	9	9	10
Connection	3-wires, without neutral	4-wires, with neutral	4-wires, with neutral
Supply voltage	230 V AC / 50-60 Hz		
Consumption (no operation/make)	0,8/3 VA	0,8/3 VA	3 VA
Supply voltage tolerance	- 15%; + 10%		
Time ranges	0,1 s-10 days	0,1 s-10 days	x
Time setting via	via rotary switch and potentiometer	via rotary switch and potentiometer	x
Time deviation	10% mechanical setting	10% mechanical setting	x
Repeat accuracy	2% set value stability	2% set value stability	x
Temperature coefficient	0,1%, °C at 20 °C	0,1%, °C at 20 °C	x
Output	1x triac		
Resistive load	10-160 VA	0-200 VA	16A 125/250 V AC1
Inductive load	10-100 VA	0-100 VA	8A 250 V AC (cos φ > 0,4)
Controlling			
Voltage	230 V AC		
Current	3 mA		
Impulse length	min. 50 ms/ max. unlimited		
Operating temperature	0...+50 °C		
Operating position	any		
Mounting	free at connecting wires		
Protection degree	IP 30 from front panel		
Overvoltage category	III		
Pollution degree	2		
Fuse	F1 A / 250 V	F1 A / 250 V	F1,6 A / 250 V
Outlets	3 x solid wires 0,75 mm ² length 90 mm		
Glow-laps in button (pcs)	max. 10		
Dimensions	48,5 x 48,5 x 13 mm		
Standards	EN 61010-1		

Technical data

Function

Function a - delay off on entering edge
output times when it is switched. Each following pressing (max. 5x) increases time
Long pressing switches output off



Function b - delay off on downward edge
output times after button is switched off, switches immediately



Function c - delay off on downward edge
after switching off output switches on and times.



Function d - cycler - flasher impulser
output cycles in regular interval, cycler starts with an impulse



Function e - puls shift
delay on after the switch is switched on and delay on after it is switched off



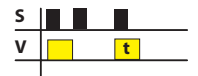
Function f - delay on
delay on after switch is switched on until it is switched off



Function g - pulse relay
switches on by a press, another pressing switches the output off. The length of pressing doesn't matter, it is possible to set reaction delay by a potentiometer and thus eliminate rebound of a button



Function h - impulse relay with delay
one press switches on, another one switches the output off in case it is done before the end of timing



Function i - delay on after switched off
output cycles in regular intervals, cycler starts with a gap

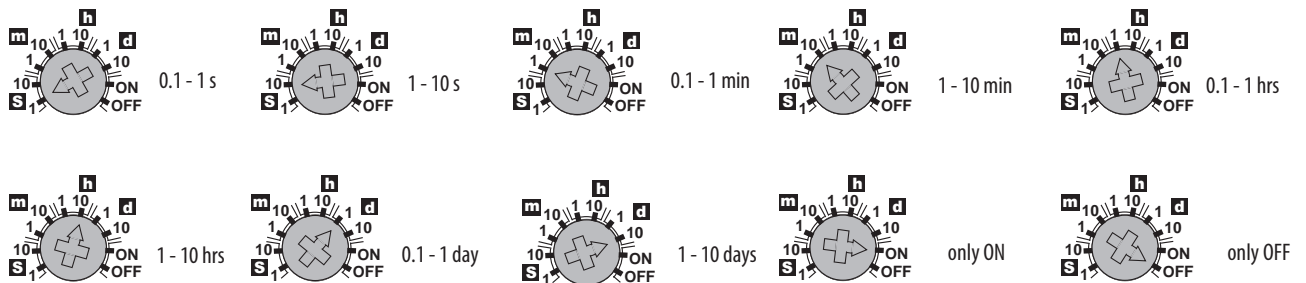


Function j *- cycler starting with gap
delay on after switching on until it is de-energized or a switch is pressed again.



*function j is valid only for SMR-B

Time ranges



Connection SMR-B, SMR-H, SMR-T

