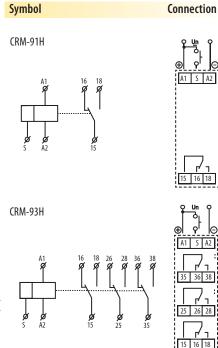






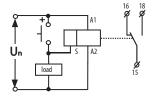
- multifunction time relay to be used for electrical appliances, control of lights, heating, motors, pumps, fans, due to its complexity (10 functions, 10 time ranges, multivoltage, 16Amps or 3x8Amps contacts)
- fulfils all requirements for timer relays
- 10 functions: 5 time functions controlled by supply voltage
 - 4 time functions controlled by control input
 - 1 function of latching relay
- comfortable and well-arranged function and time-range setting by rotary switches
- time scale 0.1 s 10 days divided into 10 ranges: (0.1 s 1 s / 1 s 10 s / 0.1 min 1 min / 1 min 10 min / 0.1 hrs 1 hrs / 1 hrs 10 hrs / 0.1 day 1 day / 1 day 10 days / only ON / only OFF)
- <u>CRM-91H, CRM-93H</u>: Universal supply voltage AC/DC 12 240 V or AC 230 V, Output contact: CRM-91H: 1x changeover 16 A; CRM-93H: 3 x changeover 8 A
- <u>CRM-95</u>: Universal supply voltage AC 12 240 V AC 12 240 V, absolutely noise-less switching 1x static contactless output (triac) 01.7 A (60A/<10 ms), switches potential A1</p>
- output indication: multifunction red LED, which flashes or shines in dependance on output status
- 1-MODULE, DIN rail mounting

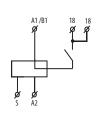
ČESKÁ KVALITA))EMC((() ! I-MUDULE, DIN FAII	
Technical parameters	CRM-91H	CRM-93H	CRM-9S
Number of functions:		10	
Supply terminals:		A1 - A2	
Supply voltage:	AC/DC 12 - 240 V (AC 50 - 60 Hz)		AC 12-240V (50-60Hz)
Consumption:	AC 0.7 - 3 VA / DC 0.5 - 1.7 W		AC max. 0.35VA
Supply voltage:	AC 230 V / 50 - 60 Hz		Х
Consumption (apparent/loss):	AC max. 12VA / 1.3W	AC max. 12VA / 1.9W	Х
Supply voltage tolerance:	-15 %; +10 %		
Supply indication:	green LED		
Time ranges:	0.1 s - 10 days		
Time setting:	rotaty switch		
Time deviation:	5 % - mechanical setting		
Repeat accuracy:	0.2 % - set value stability		
Temperature coefficient:	0.01 % / °C, at = 20 °C		
<u>Output</u>			
Number of contacts:	1x changeover (AgNi)	3x changeover (AgNi)	1x static output (triac)
Rated current:	16A / AC1	8A / AC1	0.7A
Breaking capacity:	4000VA / AC1, 384W / DC	2000VA / AC1, 192W / DC	Х
Inrush current:	30A / <3s	10A / <3s	60A / <10ms
Switching voltage:	250V AC1 / 24V DC		Х
Min. breaking capacity DC:	500mA		Х
Voltage drop on switch:	Х		max. 0.9 V at I max.
Load on B1 terminal:	х		Yes / I max. 0.7 A
Output indication:	multifunction red LED		
Mechanical life:	3x10 ⁷		> 108
Electrical life (AC1):	0.7x10 ⁵		>108
Controlling			
Power on control input:	AC 0.025 - 0.2 VA / DC 0.1 - 0.7 W (UNI), AC 0.53 VA (AC 230 V), AC 0.025 - 0.2 VA (AC 12 - 240 V)		
Load between S-A2:	YES		
Control. terminals:	A1-S		
Max. capacity of cable control:			
-without connected glow-lamps	12 nF		
- with connected glow-lamps	(UNI) - glow lamps cannot connected/NO		
	9 nF (AC 230 V), max.20pcs(1pc-1mA)		glow lamps cannot connected/NO
Impulse length:	min. 25 ms / max. neomezená		
Reset time:	max.	150 ms	max. 250 ms
Other information			
Operating temperature:	-20+55°C		
Storage temperature:	-30+70°C		
Electrical strength:	4kV(supply-output)		Х
Operating position:	any		
Mounting/DIN rail:	DIN rail EN 60715		
Protection degree:	IP 40 from front panel		
Overvoltage cathegory:	III.		
Pollution degree:	2		
Max. cable size (mm²):	solid wire max.1x 2.5 or 2x1.5/ with sleeve max. 1x2.5		
Dimensions:	90 x 17.6 x 64 mm		
Weight:	(UNI) - 64 g; (230) - 62 g	(UNI) - 89 g; (230) - 87 g	51 g
Standarts:		EN 61812-1, EN 61010-1	



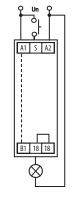
Load with control input possible

Load between S-A2 possible to connect in parallel way, without disturbing of proper operation of the relay. Load is energized for a period of time when a button is switched.





CRM-9S

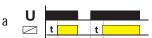






Function

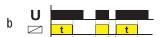




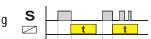
Delay OFF after break of control contact with instant output



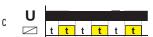
Delay OFF after energization



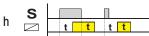
Delay OFF after make and break of control contact



Cycler beginning with impulse after energization

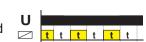


Delay OFF after closing and braking of control contact



Delay OFF

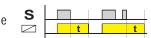
after de-energization, instant make of output



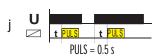
Latching relay



Delay OFF responding to make of control contact regardless its length



Pulse generator



Time ranges



0.1 - 1s



1 - 10 s



0.1 - 1 min



1 - 10 min



0.1 - 1 h



1 - 10 hrs



0.1 - 1 day



1 - 10 days

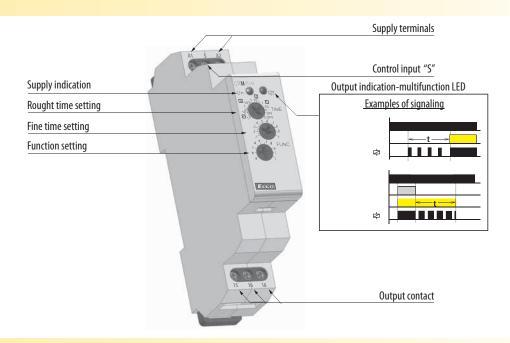


only ON



only OFF

Description



Notes

- 1) CRM-93H doesn't allow switching of different phases or 3-phase voltages .
- 2) When mounting into steal-plated switchboards, it is necessary keep safety distance of min. 3 mm from terminal's screws 35-36-38 and 25-26-28 towards the shutter of a switchboard.

