



EAN code  
 CRM-91 /230 V: 8595188112444  
 CRM-91 /UNI: 8595188112420  
 CRM-93H /230 V: 8595188112789  
 CRM-93H /UNI: 8595188112468  
 CRM-9S /UNI: 8595188116008

Technical parameters	CRM-91H	CRM-93H	CRM-9S
Number of functions:	10		
Supply terminals:	A1 - A2		
Voltage range:	UNI AC/DC 12 - 240 V (AC 50 - 60 Hz)	AC 12-240 V (50-60 Hz)	
Burden (max.):	AC 0.7 - 3 VA / DC 0.5 - 1.7 W	AC 0.35VA	
Voltage range:	230 AC 230 V / 50 - 60 Hz	x	
Consumption (apparent / loss):	AC max. 12VA / 1.3W	AC max. 12VA / 1.9W	x
Max. dissipated power (Un + terminals):	4 W	4 W	1 W
Supply voltage tolerance:	-15 %; +10 %		
Supply indication:	green LED		
Time ranges:	0.1 s - 10 days		
Time setting:	rotary switch and potentiometer		
Time deviation:	5 % - mechanical setting		
Repeat accuracy:	0.2 % - set value stability		
Temperature coefficient:	0.01 % / °C, at = 20 °C (0.01 % / °F, at = 68 °F)		

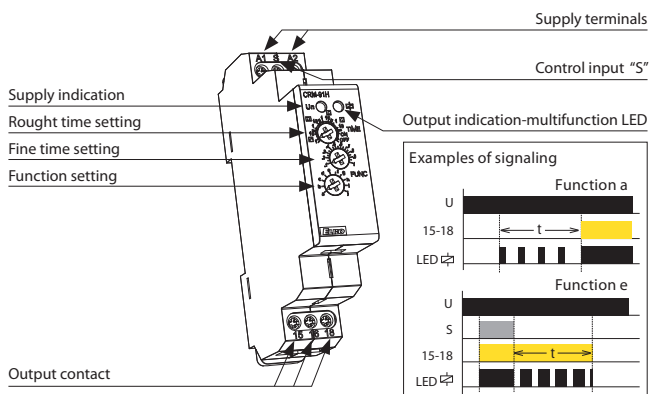
Output			
Number of contacts:	1x changeover/ SPDT (AgNi / Silver Alloy)	3x changeover/ SPDT (AgNi / Silver Alloy)	1x static contactless output (triac)
Current rating:	16 A / AC1	8 A / AC1	0.7 A
Breaking capacity:	4000 VA / AC1, 384 W / DC	2000 VA / AC1, 192 W / DC	x
Inrush current:	30 A / < 3 s	10 A / < 3 s	60 A / < 10 ms
Switching voltage:	250 V AC1 / 24 V DC		
Voltage drop on switch:	x	max. 0.9 V at I max.	
Load on B1 terminal:	x	Yes / I max. 0.7 A	
Output indication:	multifunction red LED		
Mechanical life:	3x10 <sup>7</sup>	> 10 <sup>8</sup>	
Electrical life (AC1):	0.7x10 <sup>5</sup>	>10 <sup>8</sup>	

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		
Glow tubes connections:	230 V - Yes / UNI - No	x	
Max. amount of glow lamps connected to controlling input:	UNI - glow lamps cannot connected/NO 230 V - max.20 pcs (measured with glow lamp 0.68 mA / 230 V AC)	glow lamps cannot connected/NO	
Impulse length:	min. 25 ms / max. unlimited		
Reset time:	max. 150 ms	max. 250 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:	4kV (supply-output)	x	
Operating position:	any		
Mounting:	DIN rail EN 60715		
Protection degree:	IP40 from front panel / IP20 terminals		
Overtoltage category:	III.		
Pollution degree:	2		
Max. cable size (mm <sup>2</sup> ):	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:	(UNI)-65 g (2.3 oz.); (230)-62 g (2.2 oz.);	(UNI)-87 g (3.1 oz.); (230)-85 g (3 oz.);	55 g (1.9 oz.)
Standards:	EN 61812-1, EN 61010-1		

- Multifunction time relay can be used for electrical appliances, control of lights, heating, motors, pumps and fans (10 functions, 10 time ranges, multi-voltage, 16 A or 3x 8 A contacts)
- Fulfills all requirements for time 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 h / 1 h - 10 hrs / 0.1 day - 1 day / 1 day - 10 days / only ON / only OFF)
- **CRM-91H, CRM-93H:**
  - universal supply voltage AC/DC 12 - 240 V or AC 230 V,
  - Output contact: CRM-91H: 1x changeover/SPDT 16 A; CRM-93H: 3 x changeover/SPDT 8 A
- **CRM-9S:**
  - universal supply voltage AC 12 - 240 V AC 12 - 240 V, absolutely noise-less switching
  - 1x static contactless output (triac) 0.7 A (60 A / < 10 ms), switches potential A1
- Multifunction red LED output indicator flashes or shines depending on the status of output
- 1-MODULE, DIN rail mounting

## Description

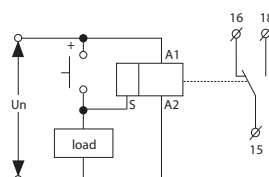
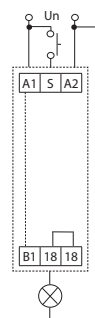
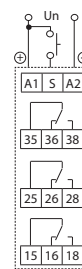


## Connection

CRM-91H

CRM-93H

CRM-9S



### Possibility to connect load onto controlling input

It is possible to connect the load (e.g.: contactor) between terminals S-A2, without any interruption of correct relay function.