

Time relay with external potentiometer CRM-91HE, CRM-2HE



1M



- Control by external control unit - potentiometer (can be for example on switch board doors or in panel)
- **CRM-91HE:** multifunction time relays
 - 10 function - 5 time functions controlled by supply voltage
 - 4 time functions controlled by control input
 - 1 function of latching relay
- 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)
- **CRM-2HE:** asymmetric cyclers
 - 2 time function - cyclers beginning with pulse
 - cyclers beginning with gap
- function selected via external wired link on control input S-A1
- **CRM-91HE, CRM-2HE:**
 - Universal supply voltage AC/DC 12 - 240 V
 - Output contact: 1x changeover 16 A/SPDT
 - 1-MODULE, DIN rail mounting
 - Possible to connect external potentiometer - max. distance 10m (32.8 ft.) from relay

EAN code
 CRM-91HE /UNI + potentiometr: 8595188142052
 CRM-2HE /UNI + potetiometr: 8595188142069
 Potentiometr for CRM-91HE, CRM-2HE : 8595188125215

Technical parameters	CRM-91HE	CRM-2HE
Number of functions:	10	2
Supply terminals:	A1 - A2	
Voltage range:	AC/DC 12 - 240 V (AC 50 - 60 Hz)	
Burden:	AC 0.7 - 3 VA / DC 0.5 - 1.7 W	
Supply voltage tolerance:	-15 %; +10 %	
Supply indication:	green LED	
Time ranges:	0.1 s - 10 days	0.1 s - 100 days
Time setting:	rotary switch, external potentiometer	
Time deviation:	5 % - mechanical setting	
Repeat accuracy:	0.2 % - set value stability	
Temperature coefficient:	0.01 % /°C, at = 20°C	

Output		
Number of contacts:	1x changeover/ SPDT (AgNi / Silver Alloy)	
Current rating:	16 A / AC1	
Breaking capacity:	4000 VA / AC1, 384 W / DC	
Inrush current:	30 A / <3 s	
Switching voltage:	250 V AC1 / 24 V DC	
Min. breaking capacity DC:	500 mW	
Output indication:	multifunction red LED	
Mechanical life:	3x10 ⁷	
Electrical life (AC1):	0.7x10 ⁶	

Controlling		
Control. voltage:	UNI	
Consumption of input:	AC 0.025-0.2VA / DC 0.1-0.7W	
Load between S-A2:	Yes	
Glow-tubes:	No	
Control. terminals:	A1-S	
Impulse length:	min. 25 ms / max. unlimited	
Reset time:	max. 150 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:	4 kV (supply - output)	
Operating position:	any	
Mounting/DIN rail:	DIN rail EN 60715	
Protection degree:	IP 40 from front panel / IP 20 terminals	
Overvoltage category:	III.	
Pollution degree:	2	
Max. cable size (mm ²):	solid wire max. 1x 2.5 or 2x1.5/ with sleeve max. 1x2.5 (AWG 12)	
Dimensions:	90 x 17.6 x 64 mm (3.5" x 0.7" x 2.5")	
Weight:	77 g (2.7 oz.)	78 g (2.8 oz.)
Standards:	EN 61812-1, EN 61010-1	

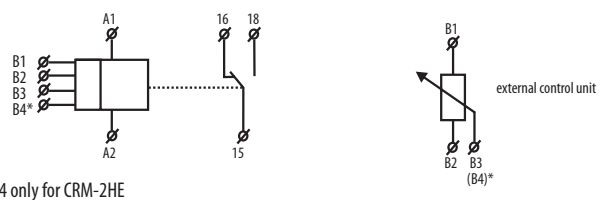
Function

Functions of CRM-91HE identical with CRM-91H, CRM-2HE identical with CRM-2H.

Symbol

CRM-91HE, CRM-2HE

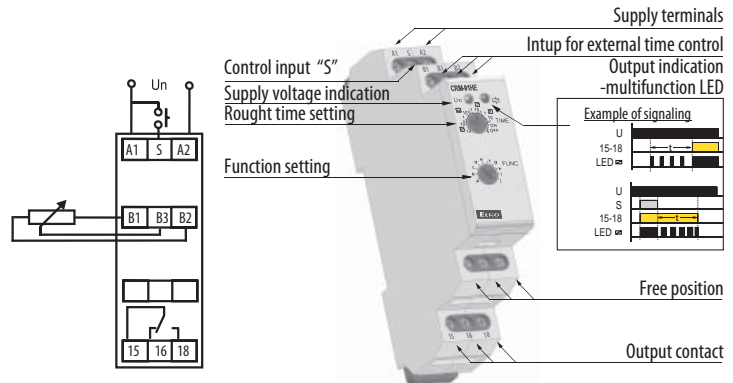
Potentiometer at CRM-91HE, CRM-2HE



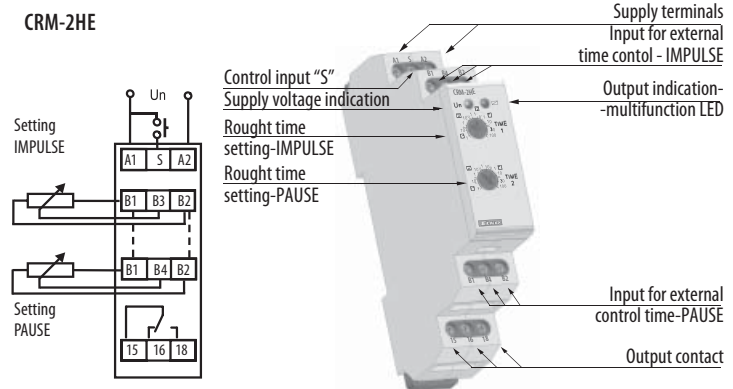
Connection

Description

CRM-91HE



CRM-2HE



Potentiometer

Potentiometer:	47 kΩ, linear
Protection degree:	IP 65 from front side/ IP 20 from back side
Max. cable size (mm ²):	1.5 mm ² with sleeve / without sleeve max.2.5 (AWG 12)
Weight:	15 g (0.5 oz.)
Dimensions:	see page Accessories