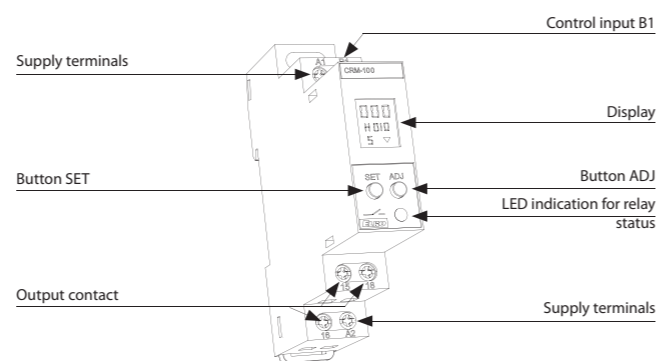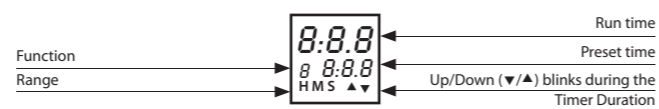**NEW**

EAN code
CRM-100: 8595188174534

- Digital multifunction relay can be used for controlling lights, heating, motors, pumps, machines and appliances where you need set time functions.
- 17 most used functions.
- Thanks to digital display and settings you exact set reguired time (without any mechanical tolerance).
- Time range 0.1 s - 999 hours
- Universal power supply 24-240 V AC/DC brings you variability of powering.
- 1x 8 A changeover contact.
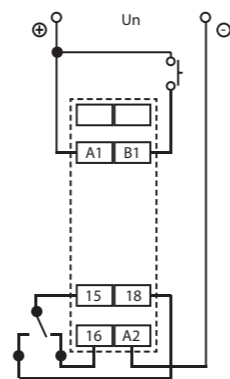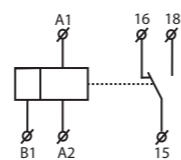- Visible time function for non-autoratized.
- 1-MODULE, DIN rail mounting.

Technical parameters

Technical parameters	CRM-100
Number of functions:	17
Supply terminals:	A1 - A2
Voltage range:	AC/DC 24-240 V (50-60 Hz)
Consumption (apparent / loss):	AC 1-4 VA / DC 1-3 W
Supply voltage tolerance:	-15 %; +10 %
Time ranges:	0.1 s - 999 hrs.
Time setting:	Buttons SET / ADJ
Repeat accuracy:	± 0.5 % - of selected range
Variation in timing due to voltage change:	± 2%
Variation in timing due to temperature change:	± 5%
Output	
Number of contacts:	1x C/O / SPDT (AgNi)
Current rating:	8 A/ AC1
Breaking capacity:	2000 VA / AC1, 192 W / DC
Inrush current:	10 A / <3s
Switching voltage:	250 V AC1/ 24 V DC
Output indication:	multifunction red LED
Mechanical life:	2×10^7
Electrical life (AC1):	1×10^5
Controlling	
Control. terminals:	A1-B1
Other information	
Operating temperature:	14 .. 131 °F (-10 .. +55 °C)
Storage temperature:	-22 .. 158 °F (-30 .. +70 °C)
Isolation (Between Input and Output):	2.5 kV
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP30 from front panel / IP20 terminals
Overvoltage cathegory:	III.
Pollution degree:	2
Max. cable size (mm²):	solid wire max. 1x 2.5 or 2x 1.5 / with sleeve max. 1x 2.5 (AWG 12)
Dimensions:	85 x 18.2 x 76 mm (3.3˝ x 0.7˝ x 2.99˝)
Weight:	85 g (2.99 oz.)

Description

Control input B1
Supply terminals
Display
Button SET
Button ADJ
LED indication for relay status
Output contact
Supply terminals

Description of displayed elements on the screen

Function
Range
Run time
Preset time
Up/Down (▼/▲) blinks during the Timer Duration

Connection

Symbol

Function

0
ON delay [0]
Timing commences when supply is present. R energizes at the end of the timing period.

A
Impulse ON/OFF [A]
Permanent supply is required. R energizes for the timing period when B1 is opened or closed. When timing commences, changing state of B1 does not affect R but resets timer.

1
Cyclic OFF/ON {OFF Start, (Sym, Asym)} [1]
T-ON and T-OFF can be same or different. The relay (R) keeps on changing its status till power is removed.

B
Signal OFF/ON [8]
When switch B1 is closed or opened for preset time ,T, the relay changes its state after time duration T.

2
Cyclic ON/OFF{On Start,(Sym,Asym)} [2]
This function is quite similar to the function '1' but initially the relay(R) is ON for period T-ON after the power is applied.

C
Leading edge impulse1 [C]
A permanent supply is needed. When B1 is closed, output relay energizes until timing irrespective of any further action of B1.

3
Impulse ON energizing [3]
After power ON, R energizes and timing starts. R de-energizes after timing is over.

D
Leading edge impulse2 [0]
Permanent supply is required. when switch B1 is closed, and remains closed output relay energizes until timing is over. If B1 is opened during timing, R resets.
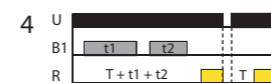
4
Accumulative delay ON signal [4]
Time commences as supply is present and switch B1 is open. Closing switch B1 pauses timing. Timing resumes when switch B1 is opened again. R energizes at the end of timing.

E
Trailing edge impulse1 [E]
Permanent supply required. when B1 is opened, R energizes and de-energizes when timing is over. If B1 is closed during timing R resets.

5
**Accumulative delay ON inverted signal** [5]
Time commences as supply is present and switch B1 is closed. Opening switch B1 pauses timing. Timing resumes when switch B1 is closed again. R energizes at end of timing.

F
Trailing edge impulse2 [F]
Permanent supply is required. When switch B1 is opened, R energizes and will de-energize when timing is over. If B1 is pulsed during timing period it will have no effect on R.
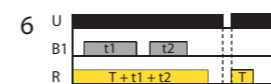
6
Accumulative impulse ON signal [6]
When supply is ON, R energizes. When switch B1 is closed timing is suspended and remains suspended till switch B1 is opened again. Interrupting supply resets timer.
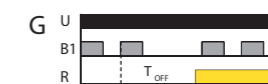
G
Delayed impulse [G]
When switch B1 is closed, T_{OFF} starts. Relay energizes at the end of T_{OFF} period. Then, T_{OFF} starts irrespective of signal level and relay de-energizes at the end of T_{ON} period.

7
Signal ON delay [7]
Permanent supply required. Timing starts when switch B1 is closed. R energizes at end of timing period and de-energizes when B1 is opened.

8
Inverted signal ON delay [8]
Timing will commence when supply is present and switch B1 is open. R energizes after timing. If B1 is closed during timing period, timing resets to the beginning of cycle.

9
Signal OFF delay [9]
Permanent supply is required. R energizes when switch B1 is closed. Timing commences after S is opened and then the relay de-energizes.