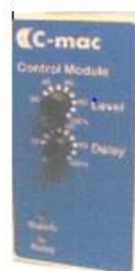


RC10/RV10 Current/voltage relay

Datasheet



- RC10: Current relay from 0,4mA to 6A AC/DC
- RV10: Voltage relay from 40mV to 600V AC/DC
- 4 measuring ranges in each module
- Adjustment for setpoint, hysteresis and time delay
- Selectable relay inversion, time delay, AC/DC mode
- 1-polet relæudgang, 8A/250VAC
- DC forsyning eller AC forsyninger op til 230 VAC



C-mac® RC10/RV10 are universal current monitoring relays and voltage monitoring relays. Both are equipped with 4 measuring ranges, and measure both DC and AC.

The input range is chosen by use of the appropriate input terminal, and the choice of AC- or DC-measuring is made by connecting terminal 8 to common terminal 7.

The output relay can either pull or drop off when the measuring voltage exceeds the preset level. This function is chosen from a switch in the bottom of the module.

In addition to adjusting the setpoint for current/voltage and hysteresis it is possible to adjust the modul's reaktion time from 0 to 10 sec., and at a switch in the bottom delayed relay activating or drop off can be chosen.

By AC-voltage measuring it is the average value, which is metered, and the level adjustment is calibrated to the r.m.s. value of a sinusoidal signal.

Technical data:

Supply voltage:	230V AC 40-70Hz
Galvanic separation:	For AC-option
Isolation voltage:	2,5kV
Consumption:	2,5 VA
Working temperature:	-20°C til +60°C
Indikator:	
Green LED:	Supply ON
Red LED:	Relay activated
Red LED:	Over setpoint
Selection:	
Level:	Scala 0,4-6
Hysteresis:	Scala 5-50%
Time delay:	Scala 0-10sek.

Scale accuracy:

5%

Relay output:

1-pole 8A/250V

Emmission:

EN50081-1

Immunity:

EN50082-2

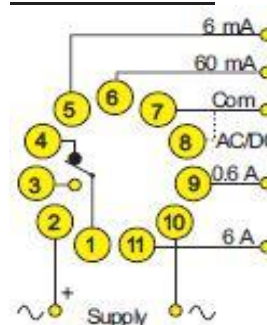
Safety:

EN60730

Modul types:

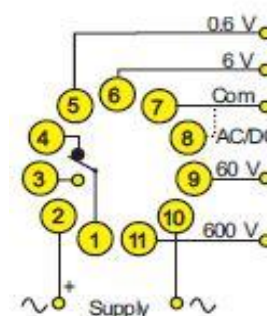
Relay-function	Measuring ranges	Max. value	Resistor
RC10	0,4 – 6 mA	80 mA	35 Ω
RC10	4 – 60 mA	200 mA	0,5 Ω
RC10	40 – 600 mA	800 mA	0,35 Ω
RC10	0,4 – 6 A	8 A	0,033 Ω
RV10	40 – 600 mV	20 V	1 k Ω
RV10	0,4 – 6 V	50 V	11 k Ω
RV10	4 – 60 V	150 V	111 k Ω
RV10	40 – 600 V	650 V	1,11 k Ω

Connections:



Connections RC10.

DC metering: 7-8 open
AC metering: 7-8 closed



Connections RV10.

DC metering: 7-8 open
AC metering: 7-8 closed

RC10/RV10 Current/voltage relay

Datasheet



Funktion selection:

Bottom 1: Delay on operate/release/inversion

Bottom 2:

Ex.1: 1 ON, 2 OFF

Delay on release, when the level drops below setpoint

Ex.2: 1 OFF, 2 ON

Delay on operate, when level drops under setpoint

Ex.3: 1 OFF, 2 OFF

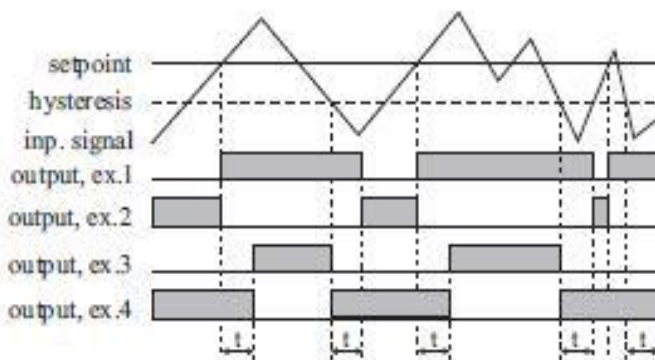
Delay on operate, when setpoint is exceeded

Ex.4: 1 ON, 2 ON

Delay on release, when setpoint is exceeded



Funktional diagram:



EMC og safety:

Emmision: EN50081-1

Immunity: EN50082-2

Safety: EN60730

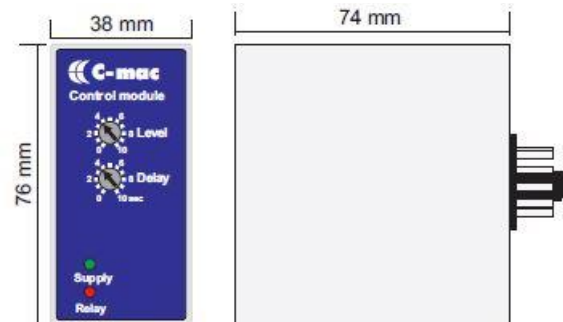
Ordering guide RC10:

<u>Supply:</u>	<u>Type:</u>
12-50 VDC	RC10-1-4-012
24 VDC	RC10-1-0-024
24 VAC	RC10-1-1-024
115 VAC	RC10-1-1-115
230 VAC	RC10-1-1-230

Ordering guide RV10:

<u>Supply:</u>	<u>Type:</u>
12-50 VDC	RV10-1-4-012
24 VDC	RV10-1-0-024
24 VAC	RV10-1-1-024
115 VAC	RV10-1-1-115
230 VAC	RV10-1-1-230

Mechanical dimensions:



Materials and weight:

Housing: Noryl, grå, selvslukkende

Terminals: Nikkel-plateret messing

Weight: 190 g

