

Electronic timers RT10, RT12, RT14, RT15 and RT16

Timing function controlled by the supply connection

RT10: Delay on operate RT12: Interval timer

RT14: Symmetrical recycler RT15: One-shot timer

RT16: Delay on release

1- or 2-pole relay output

DC supply or AC supplies up to 230 VAC

Made in accordance with the CE and EMC regulations



C-mac[®] timers type RT10, RT12, RT14, RT15 and RT16 covers all the basic timing function, used in a countless number of applications.

All units have automatic function, which means the time function starts, when the supply voltage is connected and/or disconnected.

Common technical data:

Supply, AC:	24, 115 and 230 VAC +/- 10%
Supply frequency:	40-70 Hz
Isolation voltage:	supply - internal - output: 3.75 kV
Supply, DC:	24 VAC/DC +/- 10%
	Note: With this type of supply, there is no galvanic isolation between supply and internal electronics.
Power consumption:	2,5 VA
Operation temp.:	-20°C to +60°C
Humidity:	0 - 90% RH, non-condensing
Indications:	
Green LED:	Supply voltage connected
Red LED:	Relay active (not on RT16).
Time adjustment:	2,5 - 100 % of the range
	Internal or eksternal 0-1 MΩ potentiometer, dependent on type.
	(RT15: fixed time, no adjustment)
Accuracy, scale:	5 %.
Repeatability:	0,1 %
Reset of time and/or relay:	Supply voltage interruption for more than 0,2 sec.
RT16:	Supply voltage connection for more than 0,2 sec.
Max. load, relay:	1-pole 8 A - 250 VAC
	2-pole: 5 A - 250 VAC, ohmic load

EMC og safety regulations.

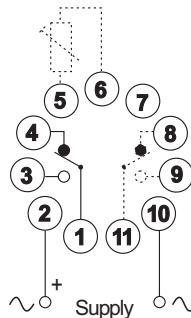
Emmision:	EN 50 081 - 1
Immunity:	EN 50 082 - 2
Safety:	EN 60 730

Approvals: The units are produced in accordance with the CE og low voltage regulations.

All units are supplied with either 1- or 2-pole relay output, or with 2 separate relays, (relay 1, pins 1-3-4, has the normal time function, and relay 2, pins 8-9-11, indicates that the supply voltage is applied).

Specifications RT10, RT12 and RT16.

Connections:

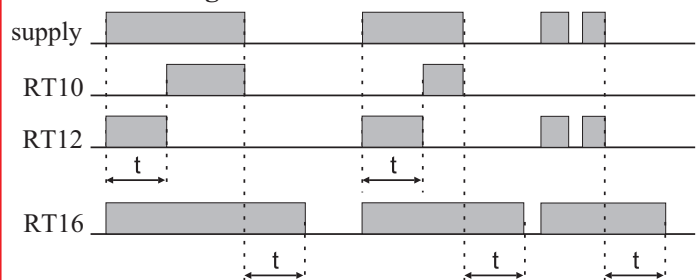


Note:

Connections 8-9-11:
2-pole version only

Connections 5-6: Only versions with eksternal potentiometer (not RT16)

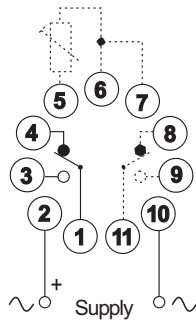
Functional diagram:



Time ranges:	0,08 - 3 sec
	0,4 - 15 sec
	1,5 - 60 sec
	0,1 - 3 min (RT16 only)
	0,25 - 10 min (not RT16)
	1,5 - 60 min (not RT16)
	0,25 - 10 hours (not RT16)

Specifications RT14.

Connections:



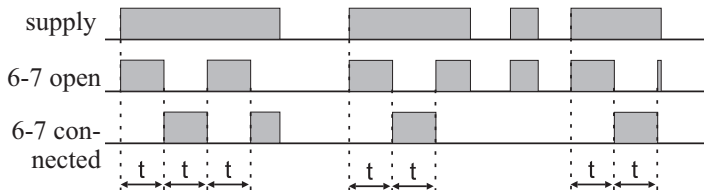
Note:

Connections 8-9-11:
2-pole version only

Connections 5-6: Only versions
with eksternal potentiometer

Connections 6-7: Start position,
see diagram

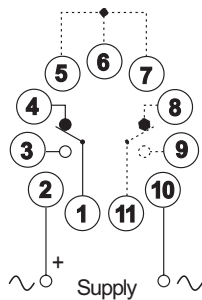
Functional diagram:



Time ranges: 0,08 - 3 sec
0,4 - 15 sec
1,5 - 60 sec
0,25 - 10 min
1,5 - 60 min
0,25 - 10 hours

Specifications RT15.

Connections:

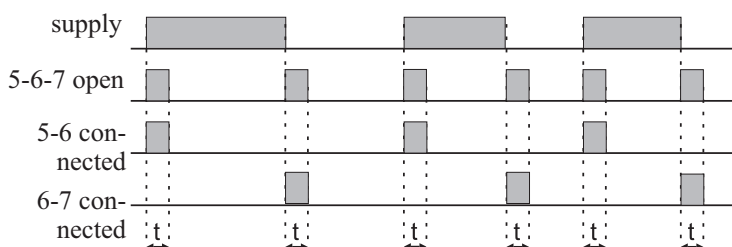


Note:

Connections 8-9-11:
2-pole version only

Connections 5-6-7: pulse
funktion, see diagram

Functional diagram:



Pulse length (t): 0,5 sec. +/- 20%

Ordering guide:

Supply	Type number
24 VAC/DC	RT1X-y-2-024-zzz
24 VAC	RT1X-y-1-024-zzz
115 VAC	RT1X-y-1-115-zzz
230 VAC	RT1X-y-1-230-zzz

X = Timer type

RT10: delay on operate

RT12: interval timer

RT14: symmetrical recycler

RT15: one-shot

RT16: delay on release

y = output relay

1: 1-pole

2: 2-pole

4: 2 separate relays

zzz = time range

see table for each type

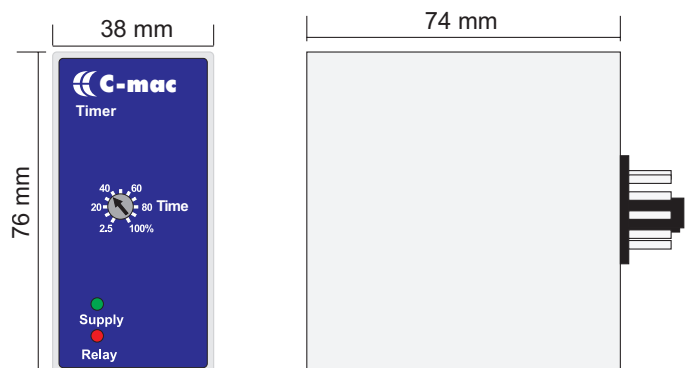
Ordering example:

RT12-2-1-230-10M

For versions with external potentiometer
an E is added to the type number
(RT10, RT12 and RT14 only)

ex: RT10E-2-1-230-60S

Mechanical dimensions:



Materials and weight:

Housing: NORYL-SE-1, grey, self-extinguishing

Housing bottom: NORYL SE-1, GFN-2, black,
self-extinguishing

Terminals: Nickel-plated brass

Weight: 140 g