

RD11: Flip-flop relay with phase-neutral or ph-ph supply.

RD15 and RD16: Flip-flop relay without or with memory.

RD17 and RD18: Bistable relay without or with memory.

Inputs:

RD11: contact input

RD15-18: contact, NPN or PNP input

1- or 2-pole relay output.

DC supply or AC supplies up to 415 VAC (RD11)

Made in accordance with the CE and EMC regulations



The C-mac[®] logic relays, series RD, are available with 2 functions:

The flip-flop relays have 1 control input, and the relay changes its position, when the input is activated.

The bistable relays have 2 control inputs. The relay activates, when the “set” input is activated, and releases, when the “reset” input activates.

If the relay has a memory function, it remains in the same position, if the supply voltage is disconnected.

Common technical data:

Supply, RD11: 24 VAC/DC
24 VAC,
127 or 230 VAC
230 or 400 VAC +/- 10%

Supply, RD15-18: 24, 115 and 230 VAC +/- 10%

Supply frequency: 40-70 Hz

Variable supply: 12-50 VDC or 48-250 VDC

Isolation voltage: Supply - internal - output: 3.75 kV

Supply, DC: 24 VDC +/- 10%
Note: With this DC supply there is no galvanic isolation between the supply and internal electronics.

Power consumption: 2,5 VA

Operating temp.: -20°C to +60°C

Humidity: 0 - 90% RH, non-condensing

Indications:

Green LED: Supply voltage connected
Red LED: Relay activated

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.

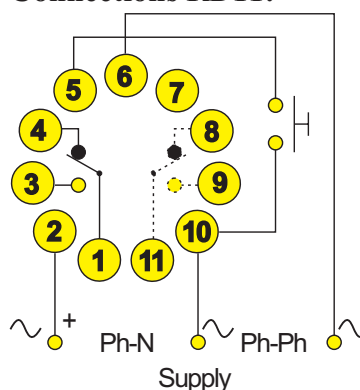
Control inputs.

RD11: pin 5-10
Note: The control input is connected to phase.

RD15-16: pin 5-7

RD17-18: pin 5-6-7
pin 5-7: set, ben 6-7: reset

Connections RD11:

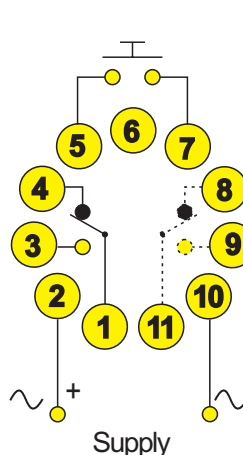


Note:

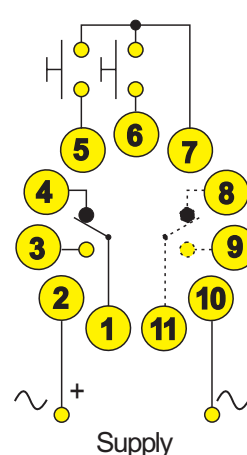
pin 8-9-11, 2 pole version only.

At 24 V versions, pin 6 is not connected.

Connections RD15-16:



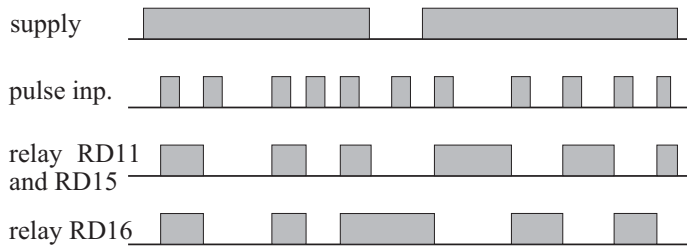
RD17-18:



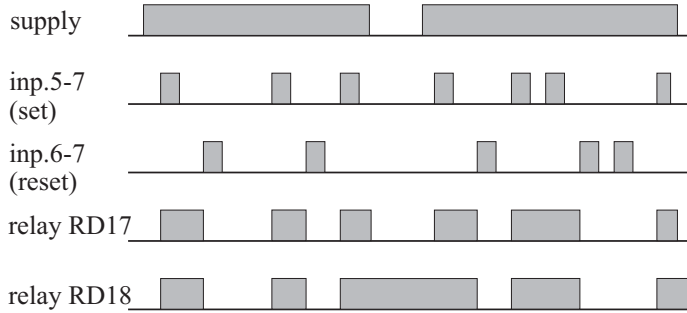
Note:

If you use transistor activation instead of contact, the emitter must be connected to pin 7.

Functional diagram RD11 and RD15-16:



Functional diagram RD17-18:



Ordering guide RD11:

RD11-x-y-zzz

x = relay output:

1 = 1-pole

2 = 2-pole

y-zzz = supply voltage:

2-024: 24 VAC/DC

1-024: 24 VAC

1-127: 127 or 230/240 VAC

1-230: 230 or 380/415 VAC

Ordering example: RD11-1-1-230

Ordering guide RD15-RD18:

NOTE:

RD15 and RD17: without memory.

RD16 and RD18: with memory.

RD15-wx-y-zzz

w = relay output:

1 = 1-pole

2 = 2-pole (not RD16 and RD18)

x = transistor logic:

1 = NPN

2 = PNP

y-zzz = supply voltage:

0-024: 24 VDC

4-012: 12-50 VDC

4-048: 48-250 VDC

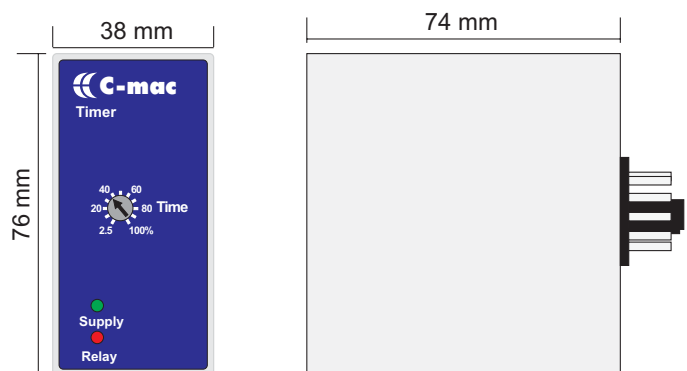
1-024: 24 VAC

1-115: 115 VAC

1-230: 230 VAC

Ordering example: RD15-12-1-230

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: 150 g