

**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<sup>®</sup> 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.

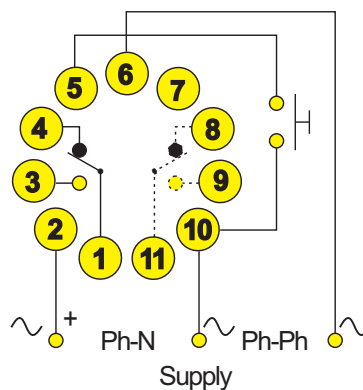
### Control inputs.

**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:



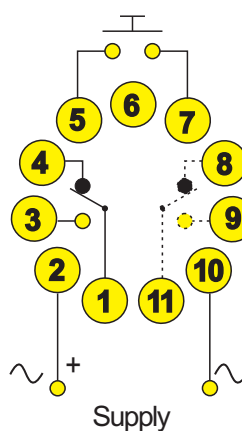
### Note:

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

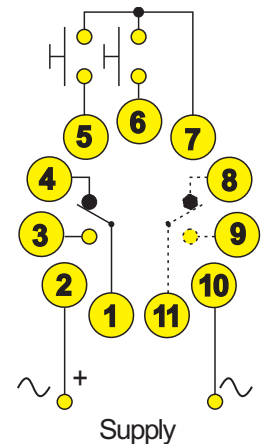
### 24 V versions:

Pin 6 is not connected.  
Use pins 5-2 instead of pins 5-10 for control input.

### Connections RD15-16:



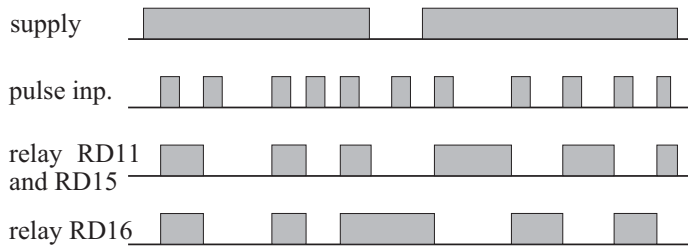
### RD17-18:



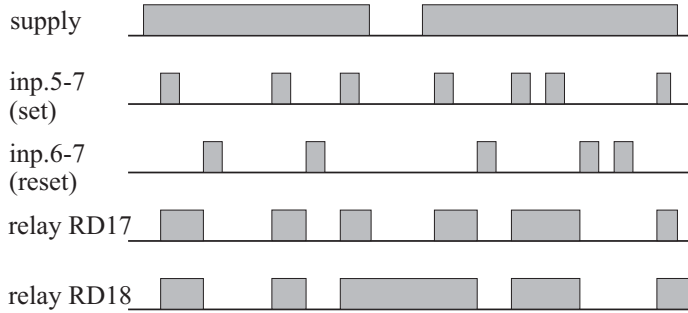
### Note:

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

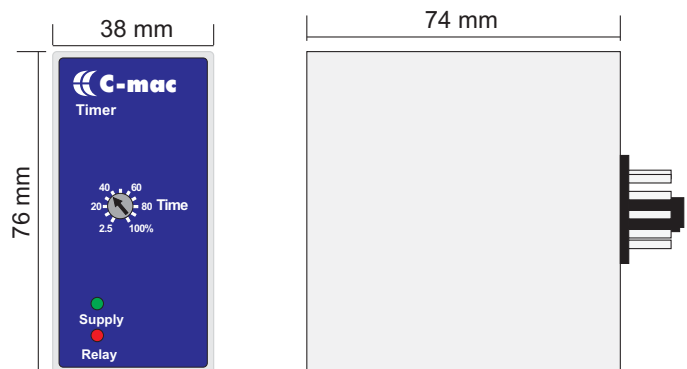
1-024: 24 VAC

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