

Amplifying relay for external sensor

Applicable for NPN, PNP and NAMUR sensors

Selectable activation or release of relay

1-pole relay output

DC supply or AC supplies up to 230 VAC

Made in accordance with the **CE** and EMC regulations



The C-mac[®] module type RD20 is a universal amplifying module, to be used together with inductive, capacitive or optical sensors.

The module has inputs for NPN, PNP and NAMUR sensors, and delivers the necessary power for these sensors.

Common technical data:

Supply voltage, AC: 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

Sensor connections:

Common minus: pin 7
24 VDC output: pin 5, max. load current 20 mA
NAMUR input: pin 6
NPN input: pin 8
PNP input: pin 9

Indications:

Green LED: Supply voltage connected
Red LED: Relay activated

Relay inversion: Pin 7-11.

Max. load, relay: 8 A - 250 VAC, ohmic load

EMC and safety regulations.

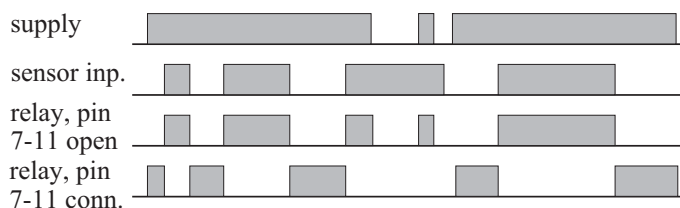
Emission: EN 50 081 - 1

Immunity: EN 50 082 - 2

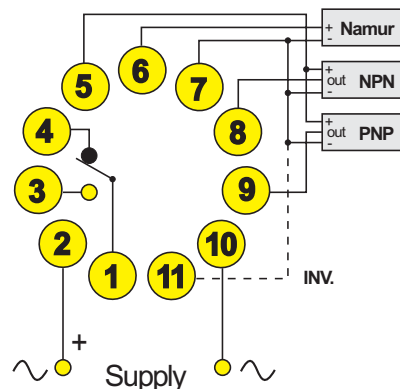
Safety: EN 60 730

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

Functional diagram:



Connections:



Ordering guide:

RD20-1-x-yyy

x-yyy = 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: RD20-1-1-024

Materials and weight RD20 and RD53:

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

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

Terminals: Nickel-plated brass

Weight: 180 g

Mechanical dimensions: see page 8-4