Pulse divider/preselection relay RD53

Preselection relay / pulse divider

Digital adjustment between 2 and 999

Pulse inputs for contact, NAMUR or NPN transistor.

Transistor output for connection to "slave module"

1-pole relay output

DC supply or AC supplies up to 230 VAC

Made in accordance with the $C\epsilon$ and EMC regulations

C-mac® module type RD53 is a digital pulse counter module, selectable as pulse divider or preselection relay. The pulse inputs can be activated from a mechanical contact, a transistor or a NAMUR sensor, and the reset input can be activated from a mechanical contact or a transistor. The unit is supplied with a "slave" transistor output, in this way several units can be connected to the same pulse sensor.

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
Counter inputs:	pins 5-6-7
NAMUR input:	pins 6-7, pin 6 positive, pin 5 and 7 connected together.
Contact/transistor:	pins 5 and 7, pin 5 positive.
Reset input:	pins 7-8, pin 8 positive.
Counter output:	pins 7-11, pin 11 positive.
	If the same sensor is used for several units, pin 7 on all units are connected together, pin 11 on the first unit is connected to pin 5 on the next, etc.
Minimum pulse time:	minimum pulse- and pause time is 15 msec.
Indications:	
Green LED:	Supply voltage connected
Red LED:	Relay active
Adjustments:	3-digit digital switch
Selection of function:	pins 7-9.
pins 7-9 open:	Preselection relay
pins 7-9 connected:	Pulse dividing relay.

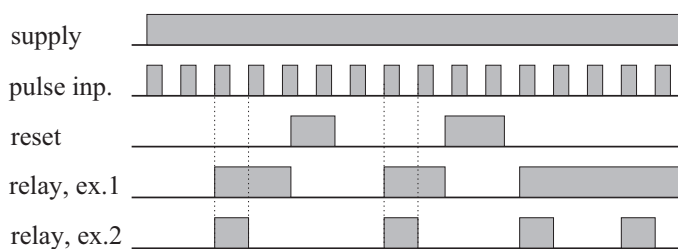**Max. load, relay:** 8 A - 250 VAC, ohmic load

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.
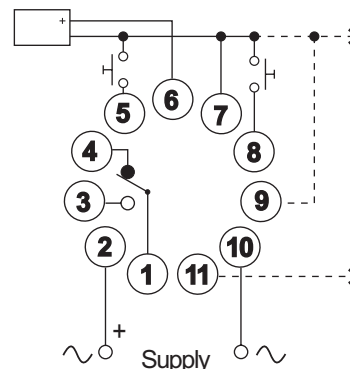
Functional diagram: (selector switch set on 3)

Ex.1: Preselection relay, pins 7-9 open
Ex.2: Pulse dividing relay, pins 7-9 connected

Connections:

Ordering guide:

RD53-1-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: RD53-1-1-024

Comadan Produktion a/s