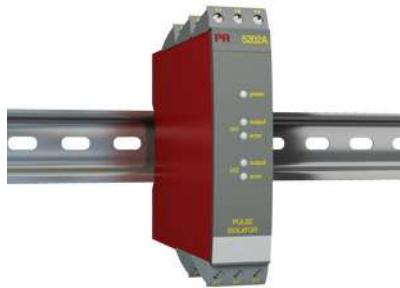


Pulse isolator



5202A

- 2 channels - 2 or 4 outputs
- Dual output
- 5-port 3.75 kVAC galvanic isolation
- Cable error detection
- Universal supply by AC or DC



Application

- Pulse isolator for the supply of NAMUR sensors.
- Pulse isolator for the detection of mechanical contacts.
- One input signal can be used on two separate outputs.
- A cable error alarm can be detected on a separate output.

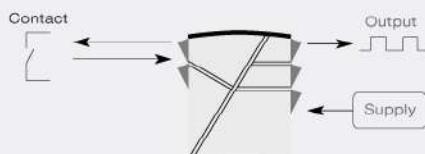
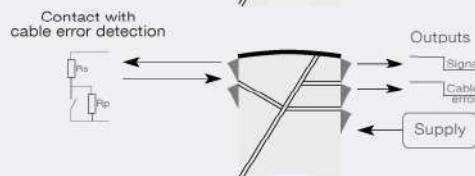
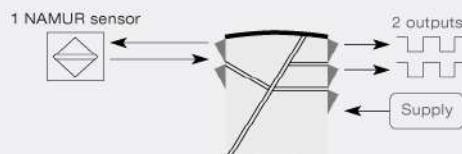
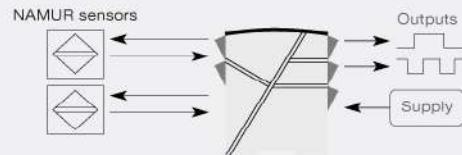
Technical characteristics

- PR5202A1 and 5202A2 have relays with change-over contacts or open NPN collectors.
- PR5202A4 has 4 SPST relays, which are activated simultaneously two and two. Each relay can be programmed to the function N.O. or N.C.
- Inputs, outputs and supply are floating and galvanically separated.
- 5202 is designed according to strict safety requirements and is therefore suitable for application in SIL 2 installations.

Mounting / installation

- Mounted vertically or horizontally on a DIN rail. Up to 84 channels per meter can be mounted.

Applications



Order:

Type	Output
5202A	Open collector NPN : 1
	2x1 relay : 2
	2x2 relays : 4

Environmental Conditions

Operating temperature..... -20°C to +60°C
 Calibration temperature..... 20...28°C
 Relative humidity..... < 95% RH (non-cond.)
 Protection degree..... IP20

Mechanical specifications

Dimensions (HxWxD)..... 109 x 23.5 x 130 mm
 Weight approx..... 230 g
 Wire size..... 1 x 2.5 mm² stranded wire
 Screw terminal torque..... 0.5 Nm

Common specifications**Supply**

Supply voltage, universal..... 21.6...253 VAC, 50...60 Hz or
 19.2...300 VDC
 Fuse..... 400 mA SB / 250 VAC
 Internal power dissipation..... ≤ 1.5 W (2 channels), 5202A1
 and 5202A2
 Internal power dissipation..... ≤ 2.0 W (2 channels), 5202A4
 Max. required power..... ≤ 1.5 W (2 channels), 5202A1
 and 5202A2
 Max. required power..... ≤ 2.0 W (2 channels), 5202A4

Isolation voltage

Isolation voltage, test /
 working..... 3.75 kVAC / 250 VAC
 PELV/SELV..... IEC 61140

Auxiliary supplies

NAMUR supply..... 8 VDC / 8 mA
 EMC immunity influence..... < ±0.5%
 Extended EMC immunity: NAMUR
 NE21, A criterion, burst..... < ±1%

Input specifications

Sensor types..... NAMUR according to EN
 60947-5-6 / mechanical contact
 Frequency range..... 0...5 kHz
 Pulse length..... > 0.1 ms
 Input resistance..... 1 kΩ
 Trig level, signal..... < 1.2 mA, > 2.1 mA
 Trig level, cable fault..... < 0.1 mA, > 6.5 mA

Output specifications**Relay output**

Max. switching frequency..... 20 Hz
 Max. voltage..... 250 VRMS
 Max. current..... 2 AAC
 Max. AC power..... 100 VA
 Max. load at 24 VDC..... 1 A

NPN output

Max. switching frequency..... 5 kHz
 Min. pulse length..... > 0.1 ms
 Max. load, current / voltage..... 80 mA / 30 VDC
 Voltage drop at 25 mA / 80
 mA..... < 0.75 VDC / < 2.5 VDC

Observed authority requirements

EMC..... 2014/30/EU
 LVD..... 2014/35/EU
 EAC..... TR-CU 020/2011

Approvals

c UL us, UL 508..... E231911