

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.

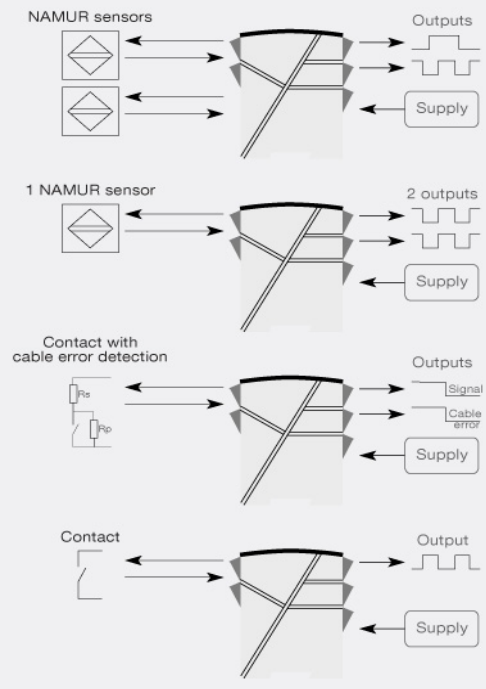
Technical characteristics

- 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 mm ² 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
EAC LVD.....	TR-CU 004/2011

Approvals

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