

Pulse isolator

5202B

- -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 with safety barrier for the supply of NAMUR sensors installed in the hazardous area.
- · Pulse isolator with safety barrier for the detection of mechanical contacts installed in the hazardous area.
- · One input signal can be used on two separate outputs.
- · A cable error alarm can be detected on a separate output.

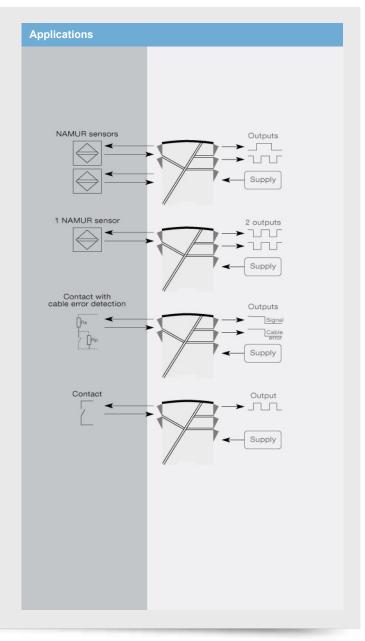
Technical characteristics

- PR5202B1 and 5202B2 have relays with change-over contacts or open NPN collectors available in the safe area.
- PR5202B4 has 4 SPST relays, which are activated simultaneously two and two, available in the safe area. Each relay can be programmed to the function N.O. or N.C.
- Inputs, outputs and supply are floating and galvanically separated.
- 5202B 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.

· Not suitable for new installations requiring certification to the latest ATEX standards - see ATEX certificate DEMKO 99ATEX127186 and EU Declaration of Conformity for details.



Order:

Туре	Output		
5202B	Open collector NPN 2x1 relay	:	1
	2x2 relays	:	4

Environmenta	I Canditions
Environmenta	i Conditions

Operating temperature	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20

Mechanical specifications

Dimensions (HxWxD)	109 x 23.5 x 130 mm
Weight approx	
Wire size	1 x 2.5 mm ² stranded wire
Screw terminal torque	0.5 Nm

Common specifications

Supply

Supply voltage, universal	21.6253 VAC, 5060 Hz or 19.2300 VDC
Fuse	400 mA SB / 250 VAC
Max. required power	≤ 1.5 W (2 channels), 5202B1 and 5202B2
Max. required power	≤ 2.0 W (2 channels), 5202B4
Internal power dissipation	≤ 1.5 W (2 channels), 5202B1 and 5202B2
Internal power dissipation	≤ 2.0 W (2 channels), 5202B4
Isolation voltage	

PELV/SELV..... IEC 61140

Auxiliary supplies

NAMUR supply...... 8 VDC / 8 mA EMC immunity influence..... < ±0.5%

Input specifications

NAMUR according to EN
60947-5-6 / mechanical contact
05 kHz
> 0.1 ms
1 kΩ
< 1.2 mA, > 2.1 mA
< 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

		DEMKO 99ATEX127186, II (1)
,		GD [EEx ia] IIC
С	UL us, UL 913	E233311
Е	4C Ex	RU C-DK.HA65.B.00355/19
S	L	Hardware assessed for use in SIL applications