

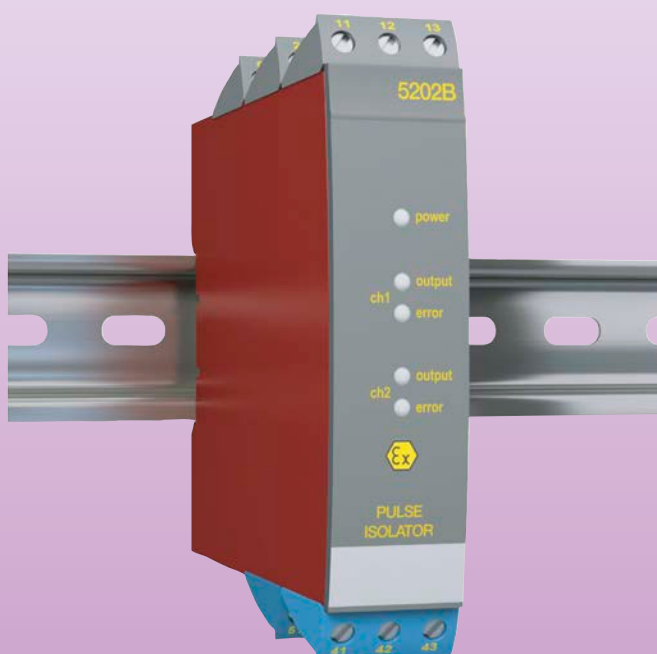


Pulse Isolator/ Safety Barrier for NAMUR sensors and mechanical contacts



measuring
•
monitoring
•
analysing

PR 5202B2



- Double channel
- Dual relay output
- 5-port 3.75 kVAC galvanic isolation
- Sensor Inputs: NAMUR, mechanical contacts
- Universal supply:
21.6 ... 253 V_{AC},
19.2 ... 300 V_{DC}

Z2



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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

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.

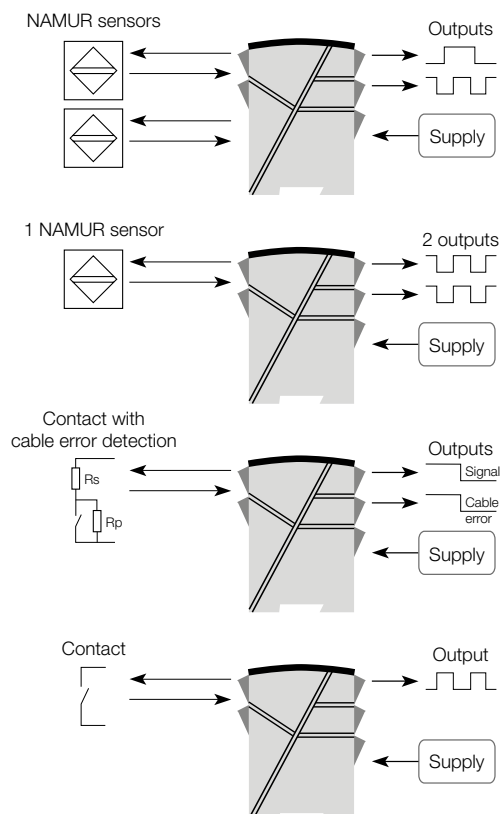
Technical Characteristics

- PR5202B2 has relays with change-over contacts.
- Inputs, outputs and supply are floating and galvanically separated.

Mounting/Installation

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

Applications



Environmental Conditions

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

Mechanical specifications

Dimensions (HxWxD):	109 x 23.5 x 130 mm
Weight approx.:	230 g
DIN rail type:	DIN EN 60715/35 mm
Wire size:	0.13 ... 2.08 mm ² AWG 26 ... 14 stranded wire
Screw terminal torque:	0.5 Nm

Common specifications

Supply

Supply voltage, universal:	21.6 ... 253 V _{AC} , 50 ... 60 Hz or 19.2 ... 300 V _{DC}
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Supply voltage, Ex variant (U _m):	253 V
Fuse:	400 mA SB / 250 V _{AC}
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

Isolation voltage, test / working:	3.75 kVAC / 250 V _{AC}
PELV/SELV:	IEC 61140

Auxiliary supplies

NAMUR supply:	8 V _{DC} / 8 mA
Programming:	Jumpers
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 V_{DC}: 1 A

Observed authority requirements

EMC: 2014/30/EU
LVD: 2014/35/EU
EAC: TR-CU 020/2011
EAC Ex: TR-CU 012/2011

Approvals

ATEX: DEKRA 20ATEX0018X
IECEx: DEK 24.0013X
c UL us, UL 508: UL-
US-L231911-11-81903002-0
c UL us, UL 913: UL-US-2422982-1
EAC Ex: EAEU KZ 7500361.01.01.10203
CCC: 2026322310007185

Order Details (Example: PR 5202B 2)

Model	Output
PR 5202B...	2 = 2 x 1 relay

Connections

Supply:

