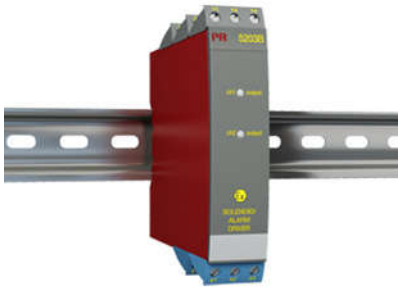
PERFORMANCE MADE SMARTER



Ex solenoid / alarm driver

5203B

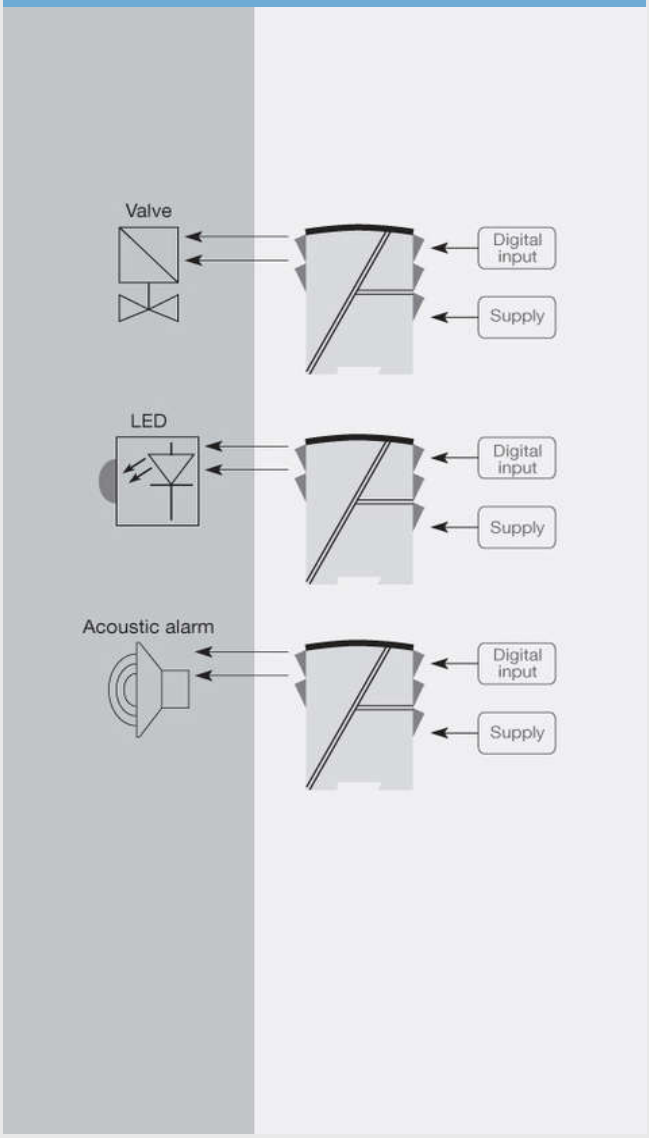
- 1- or 2-channel version
- Solenoid driver for I.S. area
- 3- / 5-port 3.75 kVAC galvanic isolation
- Digitally controlled voltage supply for I.S. area
- Universal supply by AC or DC

Application
- Driver with safety barrier for the control of ON / OFF solenoids mounted in hazardous area.
- Driver with safety barrier for the supply of LEDs and acoustic alarms mounted in hazardous area.
- Voltage supply with ON / OFF control of other equipment.

Technical characteristics
- PR5203B has a digital input per channel for the control of the I.S. output voltage.
- Supply, inputs, and outputs are floating and galvanically separated.

Mounting / installation
- Mounted vertically or horizontally on a DIN rail. By way of the 2-channel version up to 84 channels per meter can be mounted.

Applications



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Order:

Type	Input	Ex barrier	Channels
5203B	PNP : 1 Switch : 2 NPN : 3	[EEx ia] type : F	Single : 1
		[EEx ia] type : H	Single : 1
		[EEx ia] type : I	Double : 2

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
Max. required power..... ≤ 4 W (2 channels)
Internal power dissipation..... ≤ 2 W (2 channels)

Isolation voltage

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

Max. frequency..... 20 Hz
EMC immunity influence..... < ±0.5% of span
Extended EMC immunity: NAMUR NE 21, A criterion, burst..... < ±1% of span

Input specifications

NPN and mechanical switch

Trig level LOW..... ≤ 4.0 VDC
Trig level HIGH..... ≥ 7.0 VDC
Max. external voltage..... 28 VDC
Input impedance..... 3.48 kΩ

PNP

Trig level LOW..... ≤ 4.0 VDC
Trig level HIGH..... ≥ 7.0 VDC
Max. external voltage..... 28 VDC
Input impedance..... 3.48 kΩ

Output specifications

Output voltage..... See Ex data in manual
Output current..... See Ex data in manual
Output ripple..... < 40 mVRMS

Observed authority requirements

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

Approvals

ATEX 2014/34/EU..... DEMKO 99ATEX126257, II (1) GD [EEx ia] IIC
UL..... UL 913, UL 508
EAC Ex TR-CU 012/2011..... RU C-DK.GB08.V.00410