

## 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.

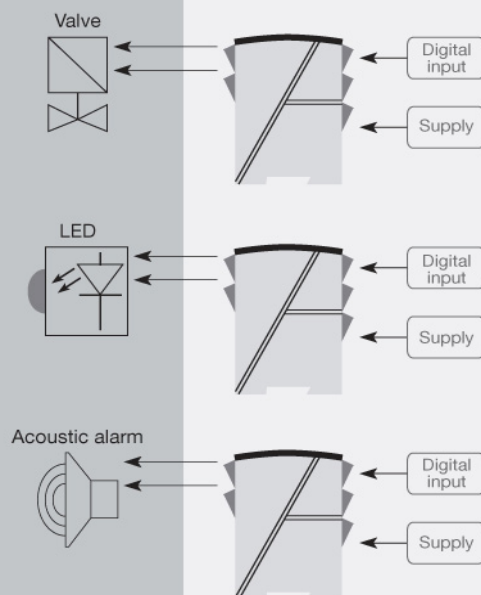
#### Technical characteristics

- 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



**Order:**

Type	Input	Ex barrier	Channels
5203B	PNP : 1	[EEx ia] type : F	Single : 1
	Switch : 2		
	NPN : 3		
		[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<sup>2</sup> 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  
 NE21, 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