

## Ex solenoid / alarm driver

### 5203B-U9

- UL 913-approved version for US market only
- 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.

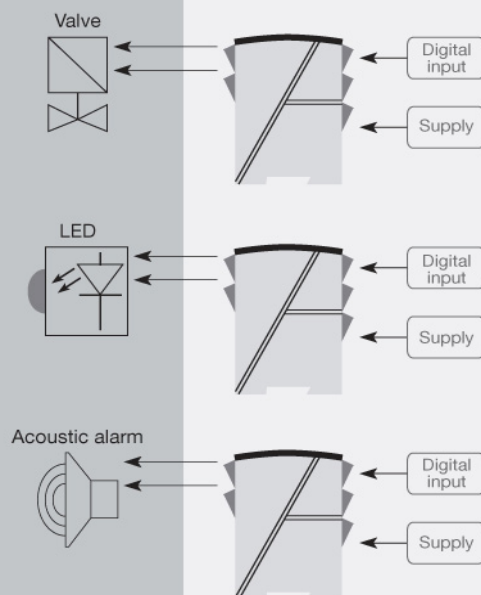
#### Technical characteristics

- PR5203B-U9 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	I.S. barrier	Channels	I.S. approval
5203B	PNP : 1	Type : F	Single : 1	UL913 : -U9
	Switch : 2	Type : H	Single : 1	
	NPN : 3	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
DIN rail type.....	DIN EN 60715/35 mm
Wire size.....	0.13...2.08 mm <sup>2</sup> AWG 26...14 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
Programming.....	DIP switches
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 I.S. data in manual
Output current.....	See I.S. data in manual
Output ripple.....	< 40 mVRMS

## Observed authority requirements

EMC.....	2014/30/EU
LVD.....	2014/35/EU

## Approvals

c UL us, UL 508.....	05122003-E233311
c UL us, UL 913.....	05122003-E233311