

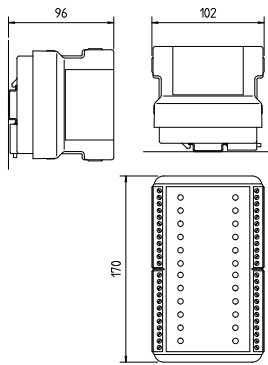


**PROFIBUS-Interface**

**Features**

- 4 outputs
- 8 Ex i inputs DIN EN 60947-5-6
- EMC according to DIN EN 61000-4-2: 2001, DIN EN 61000-4-3: 2008, DIN EN 61000-4-4: 2003, DIN EN 61000-4-6: 2007
- Galvanic isolation, LED display
- Ex ia/ib
- Programmable address on front panel

**Dimensions/mounting positions**



**Description**

This module can be used for the activation of encapsulated solenoid valves within the hazardous area by means of the PROFIBUS with the ability to monitor the end of stroke positions. Four valves can be activated, 8 final positions can be monitored via the inputs for the NAMUR sensors. The current status and final position are indicated by means of LEDs. As additional feature, open or short circuits are monitored for the 8 input channels.

**Technical data**

**Construction**

Flameproof, clip-on enclosure for TH 35 rail

**Enclosure material**

High-quality thermoplastics

**Terminals**

2.5 mm<sup>2</sup>, fine stranded

**Protection class**

Module	IP 66
Terminals	IP 20
Terminals with cover	IP 30

**Labelling**

front panel label for markings

**Display**

LEDs on front panel

**Storage temperature**

-40 °C to +60 °C

**Ambient temperature**

-20 °C to +60 °C

**Weight**

2.1 kg

**Electrical data**

**Supply voltage (L+, L-, U2+, U2-)**

DC 20 V to DC 30 V

**Power consumption**

P = 60 W (at max. current output)

**Power dissipation**

P<sub>V tot.</sub> = 3.5 W

**Galvanic isolation**

L+, L-//Bus//U2+, U2- output//input NAMUR

**Bus interface**

RS485 with screw-clamping terminals

**Display**

Status	ON, BF, SF, U2
Inputs	8 x double LED LED yellow, damped LED red, open circuit/short circuit
Outputs	4 x double LED LED yellow, active

**Sensors**

8 NAMUR sensors, mechanical contacts or others (DIN EN 60947-5-6)

**Function**

damped/undamped  
open/short circuit detection

**Characteristics**

U<sub>N</sub> = 8.2 V

**Valve/output control**

4 x U2 - 0.2 V/500 mA

**Guidelines/norms/certifications**

Directive 2004/108/EC  
Directive 94/9/EC

**Explosion protection**

**Ex protection type**

Ex II 2(1)G Ex de [ia] IIC

**Certification**

PTB 97 ATEX 1066 U  
TÜV 98 ATEX 1355 X  
Type 17-6583-.50/....  
For further data see EC model test certification.

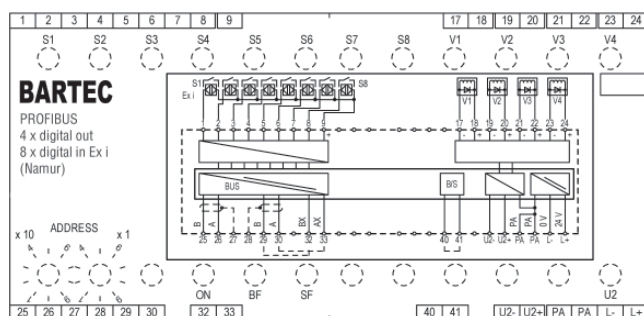
**Safety data (in)**

U<sub>0</sub> = 11.8 V  
I<sub>0</sub> = 31 mA  
P<sub>0</sub> = 90 mW  
L<sub>0</sub> = 34 mH (IIC)/130 mH (IIB)  
C<sub>0</sub> = 1.5 µF (IIC)/9.9 µF (IIB)

**Status chart**

Input	Databit	Bus message "Error I/O"	
		Jumper B/S removed	Jumper B/S connected
damped	1	0	0
un-damped	0	0	0
open circuit	1	1	0
short circuit	0	1	0

**Wiring diagram/terminal assignment**



**Notes**

- Bridge B/S-terminals 40 and 41 to disable open/short circuit monitoring
- Use a 1kΩ/10KΩ resistive coupling element type 17-9Z62-0002 for open/short circuit monitoring during contact scan
- Last bus module in system:  
Bridge A-A<sup>x</sup> (terminals 30, 33)  
Bridge B-B<sup>x</sup> (terminals 29, 32)
- GSD-file: BARX2305.gsd

**Order no.**

**07-7331-2305/0000**

Technical data subject to change without notice.