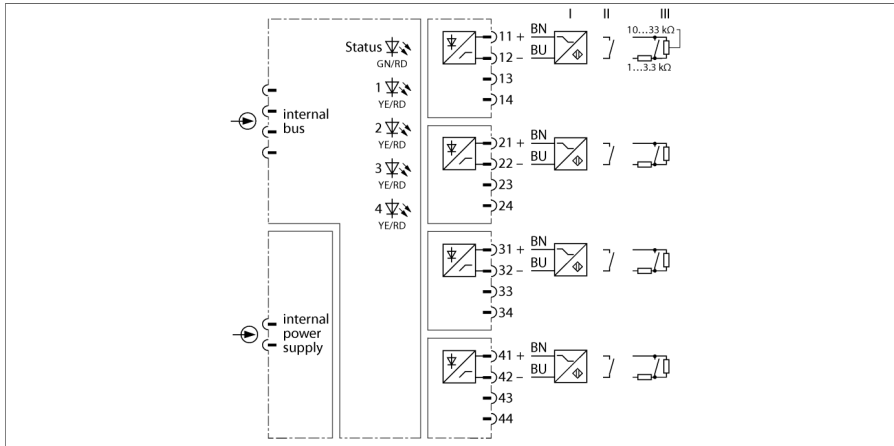


excom I/O System

Input Module, Digital, 4-channel

DI401EX



The input module DI401-EX is used for the connection of NAMUR sensors (DIN EN 60947-5-6) or mechanical contacts.

When wire-break or short-circuit monitoring are activated, mechanical contacts can only be connected with a corresponding resistor circuitry (WM1, Ident no. 0912101).

The module features protection class Ex ib IIC and can be mounted in zone 1 in combination with *excom*®. The explosion protection category of the inputs is Ex ia IIC. The inputs are galvanically isolated from each other.

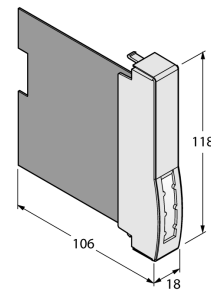
The behavior of the inputs can be adjusted via the Fieldbus master. The following parameters can be adjusted: switching behavior, switch-on delay, default value, wire-break and short circuit monitoring.

- Input module for intrinsically safe sensors
- Complete galvanic isolation



Dimensions

Type	DI401EX
ID	6884232
Supply voltage	Via module rack, central power supply module
Power consumption	≤ 2 W
Galvanic isolation	Complete galvanic isolation acc. to EN 60079-11
Number of channels	4
Input circuits	acc. to EN 60947-5-6 (NAMUR) Intrinsically safe acc. to EN 60079-11
No-load voltage	8.2 VDC
Short-circuit current	2.7 mA
Switching threshold on/off	type 1.8 / type 1.3 mA
Switching frequency	≤ 100 Hz
Short-circuit	< 367 Ω
Wire-break	< 0.15 mA
Ex approval acc. to conformity certificate	IECEX PTB 15.0043
Ex approval acc. to conformity certificate	PTB 14 ATEX 2003
Device designation	Ex II 2 (1) G Ex ib [ia] IIC T4
Device marking	Ex II (1) D [Ex ia] IIIC
Displays/Operating elements	
Operational readiness	1 × green/red
State/ Fault	4 × yellow/red
Housing material	Plastic
Connection mode	module, plugged on rack
Protection class	IP20
Ambient temperature	-20...+70 °C
Relative humidity	≤ 93 % at 40 °C acc. to IEC 60068-2-78
Vibration test	Acc. to IEC 60068-2-6
Shock test	Acc. to IEC 60068-2-27
EMC	acc. EN 61326-1 (2013) acc. to Namur NE21 (2012)
MTTF	111 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 106 mm
Approvals	ATEX cFMus cFM IECEX KOSHA EAC Ex UKCA CE



Accessories

Type code	Ident-No.		Dimension drawing
excom-RMD1-BU	100020744	The resistor module prevents wire-break detection and short-circuit detection in digital input modules. For analog input modules, overflow and underflow messages are also suppressed.	