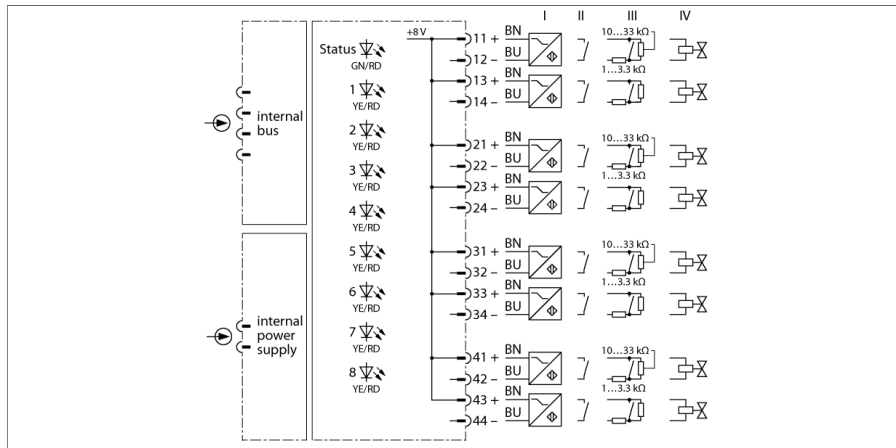


excom I/O System

I/O Module, Digital, 8-channel

DM80-N



The I/O module DM80-N is used for the connection of NAMUR sensors (DIN EN 60 60947-5-6) and actuators. When wire-break or short-circuit monitoring are activated, mechanical contacts can only be connected with a corresponding resistor circuitry (WM1, Ident no. 0912101).

When connecting the field devices, care has to be taken that all outputs are on the same potential.

Input and output mode 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.

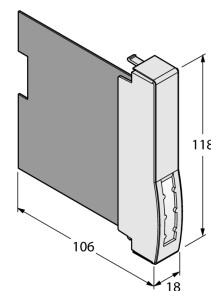
The user can furthermore determine whether an input or an output should be provided at the connecting point. The following configurations are possible: 8 inputs/0 outputs; 6 inputs/2 outputs up to 0 inputs/8 outputs (GSD-file, Mode 2). This way, optimal adaptation to the corresponding application environment is guaranteed.

- Input/output module for NAMUR sensors and actuators



Dimensions

Type	DM80-N
ID	6884211
Supply voltage	Via module rack, central power supply module
Power consumption	≤ 1 W
Galvanic isolation	to int. bus and supply circuit
Number of channels	8
Input circuits	acc. to EN 60947-5-6 (NAMUR)
No-load voltage	8 VDC
Short-circuit current	4 mA
Switching threshold on/off	type 1.8 / type 1.4 mA
Switching frequency	≤ 100 Hz
Short-circuit	< 367 Ω
Wire-break	< 0.2 mA
Output circuits	for low-power actuators
No-load voltage	8 VDC
Nominal current	4 mA
Internal resistance R _i	320 Ω
Switching frequency	≤ 100 Hz
Short circuit	< 367 Ω
Wire break	< 0.2 mA
Ex approval acc. to conformity certificate	IECEX TUR 21.0012X
Ex approval acc. to conformity certificate	TÜV 21 ATEX 8643 X
Device designation	Ex II 3 G Ex ec IIC T4 Gc
Displays/Operating elements	
Operational readiness	1 × green/red
State/ Fault	8 × yellow/red
Housing material	Plastic
Connection mode	module, plugged on rack
Protection class	IP20
Ambient temperature	-40...+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. to EN 61326-1 Acc. to Namur NE21
MTTF	141 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 106 mm
Approvals	ATEX cFMus cFM IECEX CE



Accessories

Type code	Ident-No.		Dimension drawing
excom-RMD1-BK	100020478	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.	