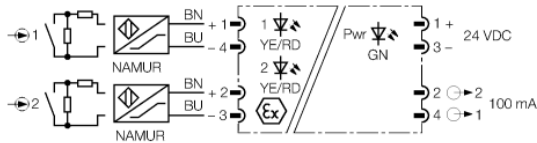




Isolating switching amplifier 2-channel IMC-DI-22EX-PNC/24VDC

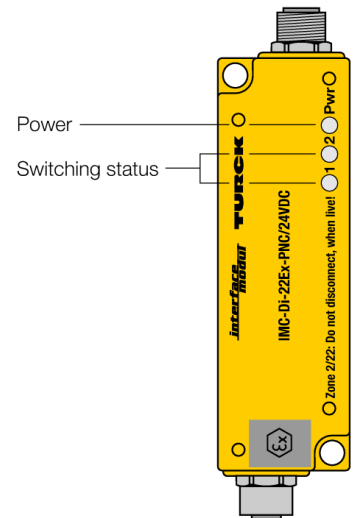


The 2-channel IMC-DI-22EX-PNC/24VDC isolating switching amplifier is equipped with intrinsically safe input circuits.

Sensors according to EN 60947-5-6 (NAMUR), variable resistors or potential free contacts can be connected to the device.

The output circuits feature 2 NO transistors. A green LED indicates operational readiness.

The device must be protected against mechanical load on connector and housing when mounted in zone 2 or 22. For this, use the TURCK cover plate IMC-SG (ident no.7560016).



- ATEX, cFM_{us} , IECEx, TR CU
- Installation in zone 2/22
- Isolating switching amplifier, 2-channel
- Line monitoring for wire break / short circuit
- PNP transistor output NC
- Complete galvanic isolation
- Input reverse-polarity protected
- Protection class IP67
- Cable with M12 connectors

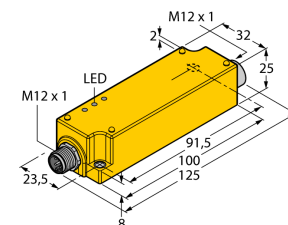


Isolating switching amplifier

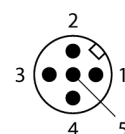
2-channel

IMC-DI-22EX-PNC/24VDC

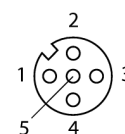
Dimensions



Pin assignment male M12



Pin assignment female M12 (intrinsically safe end)

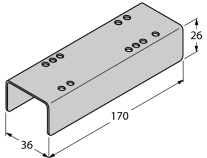


Type designation	IMC-DI-22EX-PNC/24VDC
Ident-No.	7560010
Nominal voltage	24 VDC
Operating voltage range	20...30 VDC
NAMUR	EN-60947-5-6
No-load voltage	8.2 VDC
Short-circuit current	8.2 mA
Input resistance	1 kΩ
Cable resistance	≤ 50 Ω
Switch-on threshold	1.55 mA
Switch-off threshold	1.75 mA
Voltage drop	≤ 2.5 V
Semiconductor output circuit(s)	
Output circuits (digital)	2 x transistors (pnp, short-circuit proof)
Switching voltage	≤ 30 VDC
Switching current per output	≤ 0.05 A
Switching frequency	≤ 3000 Hz
Galvanic isolation	
Test voltage	2.5 kV
Important note	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553447
Application area	II (1) GD
Ignition protection category	[Ex ia] IIC/IIB
Ex approval acc. to conformity certificate	TÜV 07 ATEX 554027 X
Application area	II 3 GD
Ignition protection type	Ex nA [nL] IIC/IIB T4 or rather Ex tD A22 IP67 T96 °C
Characteristic	linear
Ex approval acc. to conformity certificate	TÜV 07 ATEX 554027 X
Approval	SIL2 acc. to EXIDA FMEDA
Approval	SIL2 acc. to EXIDA FMEDA
Indication	
Operational readiness	green
Switching state	Yellow
Error indication	red
Protection class	IP67
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80 °C
Dimensions	100 x 32 x 25 mm
Weight	149 g
Mounting instructions	panel
Housing material	Polycarbonate/ABS
Electrical connection	M12 receptacle
Tightening torque	3.5 Nm



Isolating switching amplifier 2-channel IMC-DI-22EX-PNC/24VDC

Accessories

Type code	Ident-No.	Description	Dimension drawing
IMC-SG	7560016	Metal cover plate for IMC modules (required for application in zones 2/22)	
SC-M12/3GD	6900390	Captive safety clip for sensors with M12 x 1 connectors and approval acc. to ATEX II 3 G or II 3 D.	