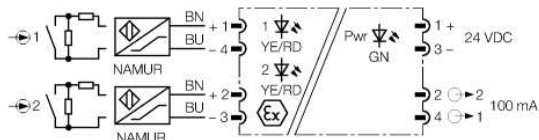




Isolating switching amplifier 2-channel IMC-DI-22EX-PNC/24VDC

TURCK

Industrial
Automation



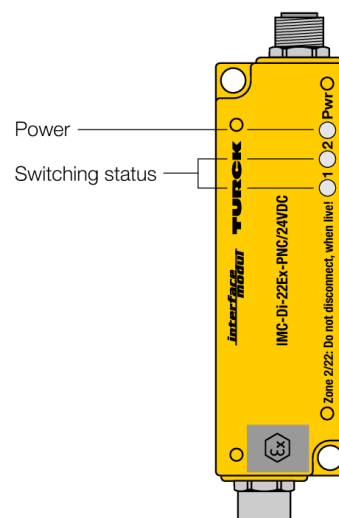
The 2-channel isolating switching amplifier IMC-DI-22EX-PNC/24VDC is equipped with intrinsically safe input circuits.

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

The output circuits feature two NC transistors.

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).

The green LED indicates operational readiness.



- Isolating switching amplifier with M12 x 1 connectors, 2-channel
- Intrinsically safe inputs circuit Ex ia
- Application area acc. to ATEX: II (1) GD, II 3 GD
- Line monitored for wire-break/short-circuit
- PNP transistor output, NC contact
- Complete galvanic separation
- Protection class IP67

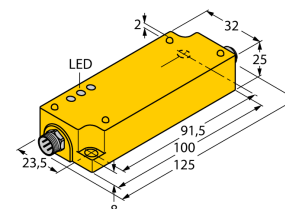


Isolating switching amplifier 2-channel IMC-DI-22EX-PNC/24VDC

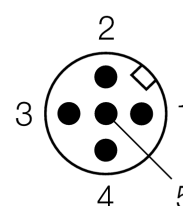
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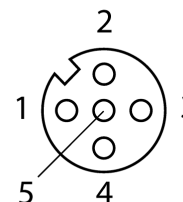
Dimensions



pin configuration M12 connectors



pin assignment female M12 (intrinsically safe end)



Type code	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	≤ 50 mA			
Switching frequency	≤ 3000 Hz			
Galvanic separation				
Test voltage	2.5 kV			
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553447			
Application area	II (1) GD			
Protection type	[Ex ia] IIC/IIB			
Max.output voltage U _o	≤ 9.6 V			
Max. output current I _o	≤ 10 mA			
Max. output power P _o	≤ 24 mW			
Rated voltage	250 V			
Characteristic	linear			
Internal inductance/capacitance L/C _i	Ci = negligibly small, Li = 0.15 mH			
External inductance/capacitance L _e /C _e				
	Ex ia	IIC		IIB
	Lo [mH]	0.85	10	1.85 20
	Co [nF]	1100	750	5300 3400
Ex approval acc. to conformity certificate	TÜV 07 ATEX 554027 X			
Application area	II 3 GD			
Protection class for belonging equipment	Ex nA [nL] IIC/IIB T4 bzw. Ex tD A22 IP67 T96°C			
Max.output voltage U _o	≤ 9.6 V			
Max. output current I _o	≤ 10 mA			
Max. output power P _o	≤ 24 mW			
Characteristic	linear			
Internal inductance/capacitance L/C _i	Li = 0.15 mH, Ci = negligibly small			
External inductance/capacitance L _e /C _e				
	Ex nL	IIC		IIB
	Lo [mH]	5.0	0.85	10 0.85
	Co [nF]	1400	1900	6600 11000
MTTF	400 years acc. to SN 29500 (Ed. 99) 40 °C			
Indication				
Operational readiness	green			
Switching state	yellow			
Error indication	red			
Protection class	IP67			
Ambient temperature	-25...+70 °C			
Storage temperature	-40...+80°C			
Dimensions	100x 32x 25 mm			
Weight	149 g			
Mounting instruction	Mounting on backplane			
Housing material	Polycarbonate/ABS			
Electrical connection	M12 flange connection			
Tightening torque	3.5 Nm			