Extract from the online catalog

MACX MCR-EX-SL-2NAM-T-SP

Order No.: 2924090

The illustration shows the versions with screw connection

Ex-i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via transistor outputs (passive) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

SIL 2

Product notes

WEEE/RoHS-compliant since: 13/11/2008

Commercial data	
EAN	4046356337335
Pack	1
Customs tariff	85389091
Weight/Piece	133.10 g
Country of Origin	DE
Catalog page information	Page 439 (IF-2009)

Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at http://www.download.phoenixcontact.com. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Measuring input

Non-load voltage	8 V DC ± 10%
Switching points (attenuated)	< 1.2 mA (blocking)
Switching points (unattenuated)	> 2.1 mA (conductive)

Measurement output	
Switching output	Transistor output, passive
Maximum switching voltage	30 V DC (per output)
Min. contact current	5 mA
Power supply	
Nominal supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Max. current consumption	< 34 mA (24 V DC)
Power consumption	1000 mW
Connection data	
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	1.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16
Stripping length	7 mm
Type of connection	Spring-cage conn.
General data	
No. of channels	2
Ambient temperature (operation)	-20 °C ... 60 °C (Any mounting position)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Status display	Green LED (supply voltage)
	LED yellow (switching state)
	Red LED (line errors)
Width	12.5 mm
Height	99 mm
Depth	114.5 mm
Inflammability class acc. to UL 94	V0
Housing material	PA 66-FR
Color	green
Conformance	CE-compliant, additionally EN 61326
ATEX	II (1) GD [Ex ia] IIC

IECEx	[Ex ia] IIC; [Ex iaD]; Ex nA II T4 X
UL, USA / Canada	UL applied for
Functional safety (SIL)	SIL 2 according to EN 61508

Safety data

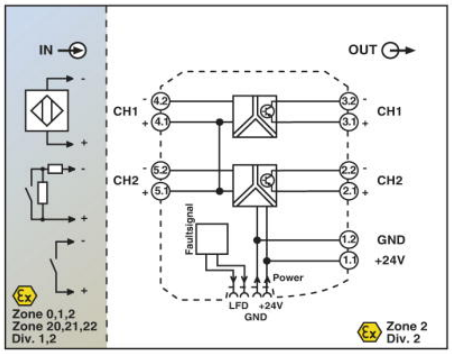
Max. voltage U_o	9.6 V
Max. current I_o	10.3 mA
Max. power P_o	25 mW
Gas group	II C
Max. external inductivity L_o	100 mH
Max. external capacity C_o	510 nF
Gas group	II C
Max. external inductivity L_o	5 mH
Max. external capacity C_o	840 nF
Gas group	II C
Max. external inductivity L_o	1 mH
Max. external capacity C_o	1.2 µF

Certificates

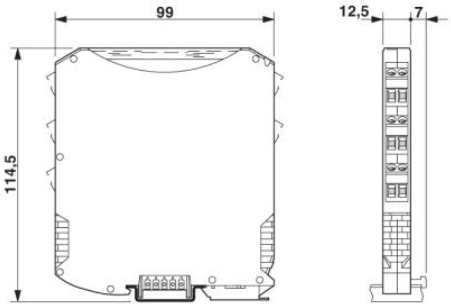
Certification	CUL Listed, UL Listed
Certification Ex:	IECEx
Certifications applied for:	UL-EX LIS / CUL-EX LIS

Drawings

Block diagram



Dimensioned drawing



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