

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

Order No.: 2865489



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**

Commercial data	
EAN	4046356160506
Pack	1
Customs tariff	85438997
Weight/Piece	155.40 g
Country of Origin	DE
Catalog page information	Page 439 (IF-2009)

## Product notes

WEEE/RoHS-compliant since:  
31/08/2009

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 $\pm$ 10%
Switching points (attenuated)	< 1.2 mA (blocking)
Switching points (unattenuated)	> 2.1 mA (conductive)

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**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 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M3
Type of connection	Screw connection
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

**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

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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 $\mu$ F

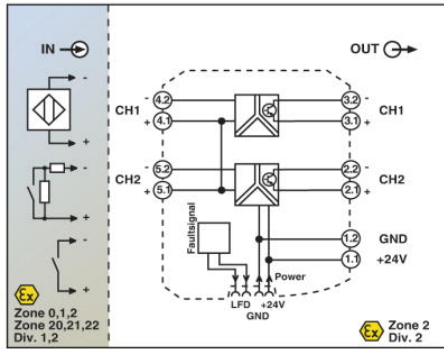
#### Certificates



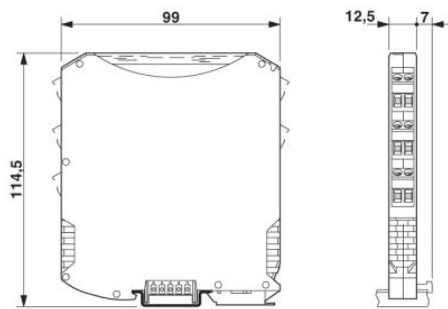
Certification	CUL Listed, UL Listed
Certification Ex:	IECEX
Certifications applied for:	UL-EX LIS / CUL-EX LIS

## Drawings

### Block diagram



### Dimensioned drawing



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