

Switching amplifier - MINI MCR-SL-NAM-2RNO - 2864105

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Configurable NAMUR switching amplifier for proximity sensors, floating switching contacts and switching contacts with resistance circuit. On the output side 2 N/O contact, with screw connection

Product Description

The 6.2 mm wide MINI MCR-SL-NAM-2RNO.... is a configurable 4-way isolation amplifier. It is suited for the operation of proximity sensors in acc. with EN 60947-5-6 and switches and also has two relay outputs. The second output can either be used to duplicate signals or for signaling faults for the sensor line. The DIP switches are accessible on the housing side and allow the following parameters to be configured:– Switchover from open circuit to closed circuit current behavior– Activation of line fault detection of the sensor line as well as– Selection of signal duplication/fault signaling Power (19.2 V DC to 30 V DC) can be supplied through connection terminal blocks on the modules or in conjunction with the DIN rail connector.

Product Features

- Floating contacts and contacts with resistance circuit can be connected
- Power supply possible via the foot element (T-connector)
- Highly compact isolation amplifier for electrical isolation, amplification, and duplication of proximity sensor signals
- For proximity sensors according to IEC 60947-5-6 and EN 50227
- Second output can be used as a duplicator or error signaling output
- Error indication via diagnostic LED and analog signal
- 3-way isolation
- Input and output signals can be configured via DIP switches
- Operating current/closed circuit current switch-over (inverted switching behavior)
- N/O contacts at output



Key commercial data

package_quantity	1
GTIN	4046356046459

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	93.1 mm

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Technical data

Dimensions

Depth	102.5 mm
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Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Power supply

Name	Supply
Nominal supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (The T connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715))
Max. current consumption	< 25 mA
Power consumption	< 600 mW

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Stripping length	12 mm
Screw thread	M3

General

No. of channels	2
Status display	Red LED (error messages)
Status display	Yellow LED (relay status messages)
Electrical isolation	Basic insulation according to EN 61010
Surge voltage category	II
Pollution degree	2
Rated insulation voltage	250 V AC (Input/relay outputs)
Test voltage, input/output/supply	1.5 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Color	green
Housing material	PBT
Mounting position	Any
Conformance	CE-compliant

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Technical data

General

ATEX	# II 3 G Ex nA nC IIC T4 Gc X
UL, USA / Canada	UL 508 Recognized
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T5 applied for
GL	GL EMC 2 D

EMC data

Name	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Evaluation criterion	A
Name	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Evaluation criterion	A
Name	Conducted interferences
Standards/regulations	EN 61000-4-6
Evaluation criterion	A

classifications

eCl@ss

eCl@ss 4.0	27210120
eCl@ss 4.1	27210120
eCl@ss 5.0	27210120
eCl@ss 5.1	27210120
eCl@ss 6.0	27210120
eCl@ss 7.0	27210121
eCl@ss 8.0	27210121

ETIM

ETIM 2.0	EC001485
ETIM 3.0	EC001485
ETIM 4.0	EC001485
ETIM 5.0	EC001485

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

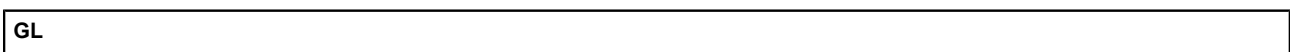
approvals

ATEX / UL Recognized / cUL Recognized / GL / cULus Recognized /

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approvals

Approval details



accessories

DIN rail connector

ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - 2869728



Power module

MINI MCR-SL-PTB - 2864134



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accessories

MINI MCR-SL-PTB-SP - 2864147



Power supply

MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983



MINI-PS-100-240AC/24DC/1.5/EX - 2866653



System adapter

MINI MCR-SL-V8-FLK 16-A - 2811268



Marking material

MINI MCR DKL - 2308111



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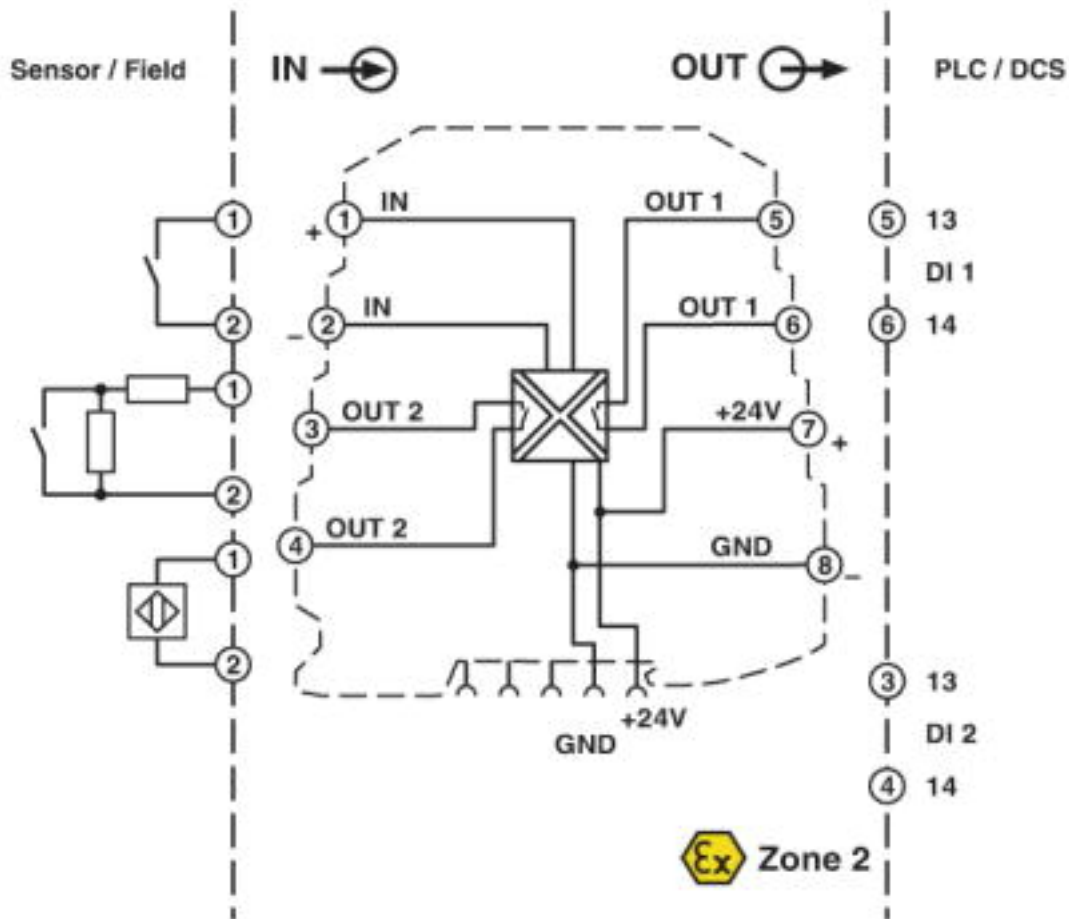
accessories

MINI MCR-DKL-LABEL - 2810272



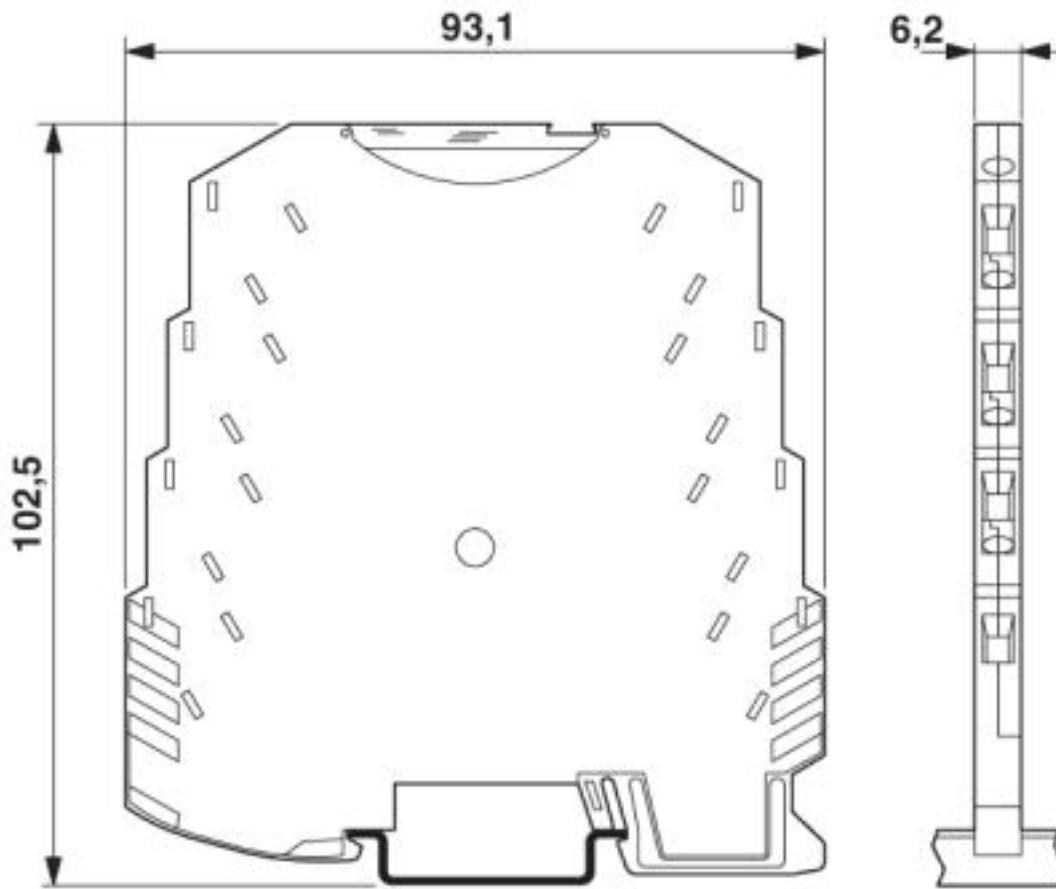
Drawings

Block diagram



Switching amplifier - MINI MCR-SL-NAM-2RNO - 2864105

Dimensioned drawing



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