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Two-channel input loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of analog signals. Input signal = output signal: 0(4) mA ... 20 mA. Push-in connection technology.

### **Product Description**

Two-channel input-loop-powered 2-way isolator with plug-in connection technology for the electrical isolation and filtering of analog signals. The input-loop-powered isolator allows operation with active sensor technology with a supply voltage of 9.6 V DC ... 30 V DC. The device is powered via the current loop of the sensor. Input signal = output signal: 0(4) mA to 20 mA. The measuring transducer supports NFC communication.



### Key Commercial Data

Packing unit	1 pc
GTIN	4 0 4 6 3 5 6 6 4 9 4 8 3
GTIN	4046356649483

### Technical data

#### Note

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

### Dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Degree of protection	IP20
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.

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## Technical data

### Input data

Description of the input	Current input
Number of inputs	2
Configurable/programmable	no
Current input signal	0 mA 20 mA
	4 mA 20 mA
Response current	approx. 200 µA
Input voltage limitation	30 V
Voltage dissipation	3.1 V (I = 20 mA)

### Output data

Output name	Current output
Number of outputs	2
Configurable/programmable	no
Current output signal	0 mA 20 mA
	4 mA 20 mA
Load/output load current output	< 600 $\Omega$ (at I = 20 mA output signal)
Transmission Behavior	1:1 to input signal

### Power supply

Supply voltage range	9.6 V DC 30 V DC (no separate supply voltage necessary)
Power consumption	600 mW

### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> (with ferrule)
	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> (without ferrule)
Conductor cross section flexible	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 12 (flexible)

General

No. of channels	2
Maximum transmission error	$\leq$ 0.1 % (of final value)
Maximum temperature coefficient	$\leq$ 0.002 %/K (of measured value / 100 $\Omega$ load)
Additional error, load-dependent	< 0.075 % (of measured value / 100 $\Omega$ load)
Limit frequency (3 dB)	100 Hz
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Overvoltage category	Ш
Degree of pollution	2
Rated insulation voltage	300 V (effective)
Test voltage, input/output/supply	3 kV (50 Hz, 1 min.)
Test voltage channel/channel	3 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC directive



## Technical data

### General

Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Color	gray
Housing material	PBT
Mounting position	any
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
UL, USA/Canada	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC T6
GL	GL applied for
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
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### **Environmental Product Compliance**

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings









## Approvals

Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

### Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

### Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed	c (U) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
EAC	EAC		RU C- DE.A*30.B.01082
cULus Listed			



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