

2901994

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1-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. Screw connection technology.

Product description

Single-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 ... 20 mA. The measuring transducer supports NFC communication.

Commercial data

Item number	2901994
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	CK1413
Catalog page	Page 80 (C-5-2019)
GTIN	4046356648653
Weight per piece (including packing)	115.3 g
Weight per piece (excluding packing)	106 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product properties

Product type	Signal conditioner
Product family	MINI Analog Pro
No. of channels	1
Туре	Signal conditioner

Insulation characteristics: GB Standard

Overvoltage category	II
Pollution degree	2

Electrical properties

Electrical isolation	2-way isolation
Electrical isolation between input and output	yes
Limit frequency (3 dB)	100 Hz
Signal transmission behavior	In = Out
Maximum temperature coefficient	≤ 0.002 %/K (of measured value / 100 Ω load)
Maximum transmission error	≤ 0.1 % (of final value)
Additional error, load-dependent	< 0.075 % (of measured value / 100 Ω load)

Electrical isolation Input/output

Rated insulation voltage	300 V _{rms}
Test voltage	3 kV AC (50 Hz, 60 s)
Insulation	Reinforced insulation according to IEC/EN 61010-1

Supply

Supply voltage range	9.6 V DC 30 V DC (loop-powered, no external supply necessary)
Power consumption	600 mW

Input data

Signal: Current

Number of inputs	1
Configurable/programmable	no
Current input signal	0 mA 20 mA
	4 mA 20 mA
Response current	арргох. 200 µA
Input voltage limitation	30 V



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Ambient conditions

Degree of protection

Altitude

Ambient temperature (operation)

Ambient temperature (storage/transport)

Permissible humidity (operation)

Voltage dissipation	3.1 V (I = 20 mA)
put data	
Signal: Current	
Number of outputs	1
Configurable/programmable	no
Current output signal	0 mA 20 mA
Odinom Odipat digital	4 mA 20 mA
Load/output load current output	< 600 Ω (at I = 20 mA output signal)
2003/04/pat/1004 05.110/1004/pat/	2000 12 (a.t. 20 iii 10 aapat 3 girar)
nnection data	
Connection method	Screw connection
Stripping length	10 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² 1.5 mm ² (with ferrule)
	0.14 mm ² 2.5 mm ² (without ferrule)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	24 12 (flexible)
Tightening torque	0.5 Nm 0.6 Nm
data	
Ex installation (EPL)	Gc
EX Installation (EFE)	Div. 2
	DIV. Z
mensions	
Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm
aterial specifications	
Color	gray (RAL 7042)
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
Housing material	PBT

IP20 (not assessed by UL)

5 % ... 95 % (non-condensing)

-40 °C ... 70 °C

-40 °C ... 85 °C

< 2000 m



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Approvals

CE	
Certificate	CE-compliant CE-compliant
ATEX	
Identification	
Certificate	BVS 19 ATEX E 079 X
UKCA Ex (UKEX)	
Identification	ⓑ II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF21UKEX2901994X
IECEx	
Identification	Ex ec IIC T4 Gc
Certificate	IECEx BVS 19.0068X
CCC / China-Ex	
Identification	Ex nA IIC T4 Gc
UL, USA/Canada	10.70011111
Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6 Class I, Zone 2, Group IIC T6
	Class I, Zone Z, Group IIC 10
EAC Ex	
Identification	⊞ LEx ec IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00079
MC data	
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
andards and regulations	
Electrical isolation	2-way isolation
GB Standard	
Standards/regulations	GB 3836.1
	GB 3836.8
ounting	
Mounting type	DIN rail mounting
Mounting position	any



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Classifications

ECLASS

UNSPSC 21.0

	ECLASS-11.0	27210120
	ECLASS-12.0	27210120
	ECLASS-13.0	27210120
ETIM		
	ETIM 9.0	EC002653
UN	SPSC	

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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