

https://www.phoenixcontact.com/us/products/2901995

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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. Push-in 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	2901995
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	CK1413
Catalog page	Page 80 (C-5-2019)
GTIN	4046356649261
Weight per piece (including packing)	109 g
Weight per piece (excluding packing)	52.2 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Notes

Utilization restriction	
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

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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 4 mA ... 20 mA Response current approx. 200 µA Input voltage limitation 30 V



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Voltage dissipation	3.1 V (I = 20 mA)
Output data	
Signal: Current	
Number of outputs	1
Configurable/programmable	no
Current output signal	0 mA 20 mA
Load/output load current output	4 mA 20 mA < 600 Ω (at I = 20 mA output signal)
Connection data	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ² (with ferrule)
	0.14 mm ² 2.5 mm ² (without ferrule)
Conductor cross section flexible	0.14 mm ² 2.5 mm ²
Conductor cross section AWG	24 12 (flexible)
Ex data	
Ex installation (EPL)	Gc
	Div. 2
Dimensions	
Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm
Material 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	РВТ
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	< 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)

Approvals



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CE	
Certificate	CE-compliant
ATEX	
Identification	ll 3 G Ex ec IIC T4 Gc
Certificate	BVS 19 ATEX E 079 X
UKCA Ex (UKEX)	
Identification	ll 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	
Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC T6
EAC Ex	
Identification	⊞ LEx ec IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00079
EMC 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
Standards and regulations	
Electrical isolation	2-way isolation
GB Standard	
Standards/regulations	GB 3836.1
	GB 3836.8
Mounting	
Mounting type	DIN rail mounting
Mounting position	any



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Classifications

ECLASS

ECLASS-11.0	27210120
ECLASS-12.0	27210120
ECLASS-13.0	27210120

ETIM

	ETIM 9.0	EC002653
UNSPSC		
	UNSPSC 21.0	39121000

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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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