

2906446

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1-channel output loop-powered 2-way repeater power supply 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 output loop-powered 2-way repeater power supply with plug-in connection technology for the electrical isolation and filtering of analog signals. The output loop-powered isolator enables operation at an active analog input card with a supply voltage of 6 V DC ... 30 V DC. The isolator and the connected sensors are supplied via the current loop of the controller. Input signal = output signal: 0(4) mA to 20 mA. The measuring transducer supports NFC communication.

Commercial data

Item number	2906446
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	CK1411
Catalog page	Page 79 (C-5-2019)
GTIN	4055626077925
Weight per piece (including packing)	114.85 g
Weight per piece (excluding packing)	109 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Notes

ı	14:11:41:41:41	n restriction
	JIIIIZAIIO	n restriction

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

Product properties

Product type	Repeater power supplies
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	≤ 0.001 %/K
Maximum transmission error	≤ 0.1 % (At 5 V)

Electrical isolation Input/output/power supply

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	8 V DC 30 V DC (loop-powered, no external supply necessary)
Power consumption	600 mW (25 mA)

Input data

Signal: Current

Number of inputs	1
Configurable/programmable	no
Current input signal	0 mA 20 mA
	4 mA 20 mA
Voltage dissipation	3.1 V (I = 20 mA)
Transmitter supply voltage	U _A - 5 V
Additional error, depending on the input voltage	(U _A - 5 V) x 0.06 %



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Output data

Signal: Current

Number of outputs	1
Configurable/programmable	no
Current output signal	0 mA 20 mA
	4 mA 20 mA
Response current	≈
Voltage dissipation	3.1 V (I = 20 mA)
Load/output load current output	600 Ω

Connection 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

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	PBT

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)



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Approvals

CE	
Certificate	CE-compliant
ATEX	
Identification	
Certificate	BVS 19 ATEX E 079 X
UKCA Ex (UKEX)	
Identification	
Certificate	PxCIF21UKEX2901994X
IECEx	
Identification	Ex ec IIC T4 Gc
Certificate	IECEx BVS 19.0068X
222 (21)	
CCC / China-Ex	F A HO T4 O.
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 00081
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	OD 2006 4
Standards/regulations	GB 3836.1
	GB 3836.8
ounting	
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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