PI/NI-2I/I - Signal conditioner

5607189

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Product description

The PI/NI-2I/I current limiter works with two-wire transmitters to prevent short circuit conditions in 4-20 mA loops and is particularly suited for use in hazardous areas. A short circuit condition is indicated by a status LED and each channel has a digital ouput for reporting to a control system, protected by optocoupler isolation.

Commercial data

Item number	5607189
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC1Z1
GTIN	4046356686822
Weight per piece (including packing)	67 g
Weight per piece (excluding packing)	33.33 g
Customs tariff number	85439088
Country of origin	US

Technical data

Notes

Note on application

Note on application	Only for industrial use

Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.

Product properties

Product type	Signal conditioner
No. of channels	2

Input data

Signal

Description of the input	Analog input
Number of inputs	2
Input signal	Current
Current input signal	4 mA ... 20 mA

Output data

Signal:

Maximum switching voltage	24 V DC (+20 %)
Minimum switching voltage	24 V DC (-20 %)
Max. switching current	50 mA (alarm outputs)

Signal

Number of outputs	2
Current output signal	4 mA ... 20 mA

Connection data

Connection method	Screw
Conductor cross-section AWG	30 ... 12
Tightening torque	5 lb_f-in. ... 7 lb_f-in.

Ex data

Safety data

Max. output voltage U_o	24 V DC
Max. output current I_o	25 mA
Max. output power P_o	567 mW
Max. external inductivity L_o / Max. external capacitance C_o	/ 600 µF
	420 mH

Dimensions

Width	17 mm
Height	94 mm
Depth	70 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C

Approvals

Ex data

UL, USA / Canada	Class I, Zone 2, AEx nA [nC] IIC T4 Class I, Zone 2, Ex nA [nL] IIC T4 X
	Class I, Div. 2, Groups A, B, C, D T4

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/5607189

UL Listed
Approval ID: E238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Output	24 V	-	30 - 10	30 - 10

cUL Listed
Approval ID: E238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Output	24 V	-	30 - 10	-

cUL Listed
Approval ID: E199827

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Output	24 V	0.02 A	30 - 12	-

UL Listed
Approval ID: E199827

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Output	24 V	0.02 A	30 - 12	-

Classifications

ECLASS

ECLASS-13.0	27210120
ECLASS-15.0	27210120

ETIM

ETIM 10.0	EC002653

UNSPSC

UNSPSC 21.0	39121000

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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