

PI/NI-2I/I - Signal conditioner

5607189

<https://www.phoenixcontact.com/us/products/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 output 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

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Technical data

Notes

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 μ F

420 mH

Dimensions

Width

17 mm

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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

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Approvals

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 UL Listed Approval ID: FILE E 238705				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Output	24 V	-	-	30 - 10

 cUL Listed Approval ID: FILE E 238705				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Output	24 V	-	30 - 10	-

 cUL Listed Approval ID: FILE E 199827				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Output	24 V	0.02 A	30 - 12	-

 UL Listed Approval ID: FILE E 199827				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Output	24 V	0.02 A	30 - 12	-

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002653
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UNSPSC

UNSPSC 21.0	39121000
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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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