

# 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

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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#### Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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### 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 <sub>F</sub> -in. ... 7 lb <sub>F</sub> -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 $\mu$ F
	420 mH

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## 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

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## Approvals

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 <b>UL Listed</b> Approval ID: E238705				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Output	24 V	-	30 - 10	30 - 10

 <b>cUL Listed</b> Approval ID: E238705				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Output	24 V	-	30 - 10	-

 <b>cUL Listed</b> Approval ID: E199827				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Output	24 V	0.02 A	30 - 12	-

 <b>UL Listed</b> Approval ID: E199827				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Output	24 V	0.02 A	30 - 12	-

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## Classifications

### ECLASS

ECLASS-13.0	27210120
ECLASS-15.0	27210120

### ETIM

ETIM 10.0	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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