

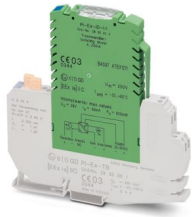
# PI-EX-ID-I/I - Signal isolator



2835024

<https://www.phoenixcontact.com/us/products/2835024>

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Ex i Analog Output: output isolating driver. Isolates and drives 0/4-20mA signals from a controller located in the safe area to a load (I/P converters, control valves, indicators) in the hazardous area. 3-way isolated (input/output/supply).

## Commercial data

Item number	2835024
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C430
Product key	DK1XXX
GTIN	4017918148010
Weight per piece (including packing)	92.7 g
Weight per piece (excluding packing)	86.2 g
Customs tariff number	85438995
Country of origin	GB

## Technical data

### Notes

Order information:	The electronics module is plugged into a basic terminal block.
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### Product properties

Product type	Signal conditioner
Application	Analog OUT
No. of channels	1

### Electrical properties

Step response (10-90%)	< 250 $\mu$ s
Maximum temperature coefficient	< 0.01 %/K
Maximum transmission error	$\leq$ 0.1 % (Of end value (at 20°C))

#### Electrical isolation Input/output

Electrical isolation	250 V <sub>rms</sub> (acc. to EN 50020)
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#### Electrical isolation Input/power supply

Test voltage	1.5 kV AC (50 Hz, 60 s)
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#### Electrical isolation Output/supply

Electrical isolation	250 V <sub>rms</sub> (acc. to EN 50020)
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### Supply

Supply voltage range	20 V DC ... 35 V DC
Max. current consumption	50 mA (at 24 V)
Power consumption	1 W (at 24 V)

## Input data

### Signal

Description of the input	Current input
Current input signal	4 mA ... 20 mA
	0 mA ... 20 mA

## Output data

### Signal

Output description	intrinsically safe
Current output signal	4 mA ... 20 mA
	0 mA ... 20 mA
Output voltage	16 V (at 20 mA)
Load/output load current output	$\leq$ 800 $\Omega$
Output resistor	> 2 M $\Omega$
Output ripple	< 40 $\mu$ A <sub>pp</sub> (800 $\Omega$ )

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## Ex data

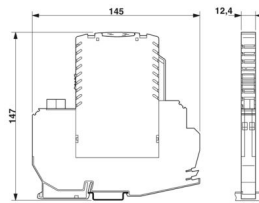
### Safety data

Max. output voltage $U_o$	28 V
Max. output current $I_o$	93 mA
Max. output power $P_o$	0.65 W
EEX specification	EX II (1)GD, [EEx ia] IIC, BAS 97 ATEX 1211
IIA: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	36.02 mH / 2.15 $\mu$ F
IIB: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	17.72 mH / 0.65 $\mu$ F
IIC: Max. external inductivity $L_o$ / Max. external capacitance $C_o$	4.3 mH / 0.083 $\mu$ F

## Signaling

Status display	Green LED (supply voltage)
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## Dimensions

Dimensional drawing	
Width	12.4 mm
Height	145 mm
Depth	147 mm

## Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing material	PBT and polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (vertical assembly)
	-20 °C ... 50 °C (horizontal assembly)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 % (relative humidity, non-condensing)

## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61326:1998

### Noise emission

Standards/regulations	EN 61326:1998
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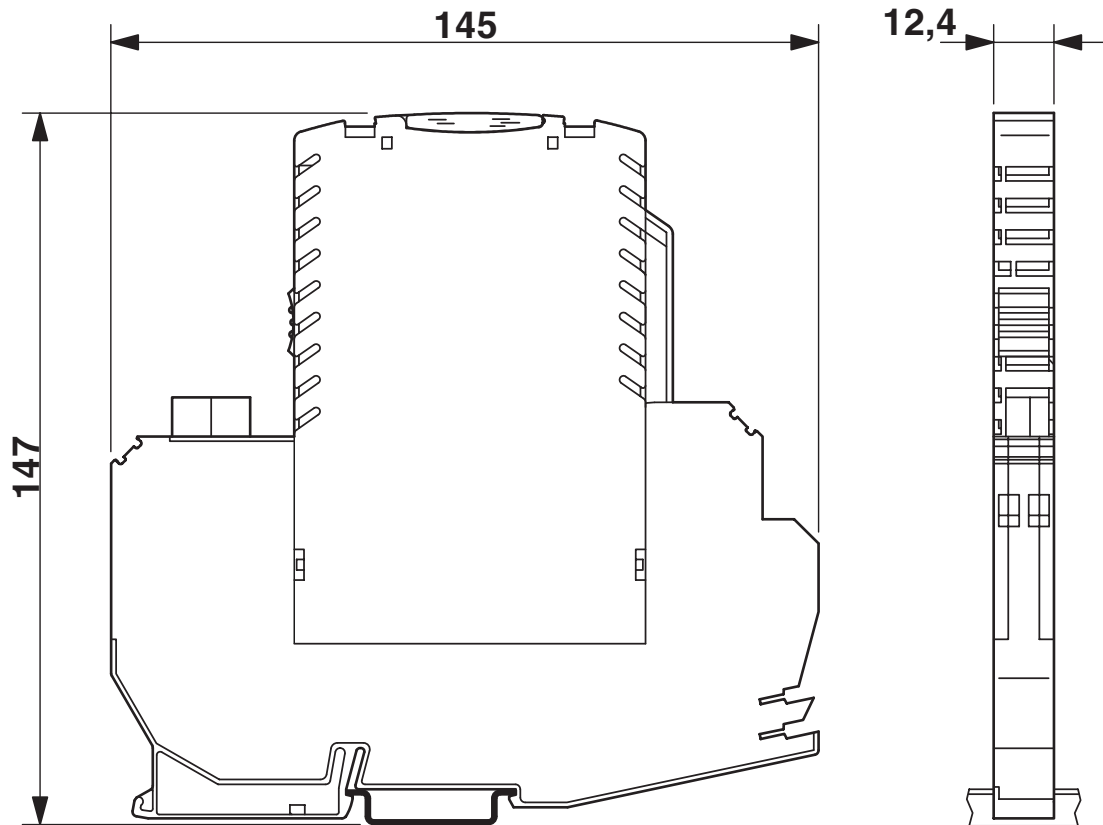
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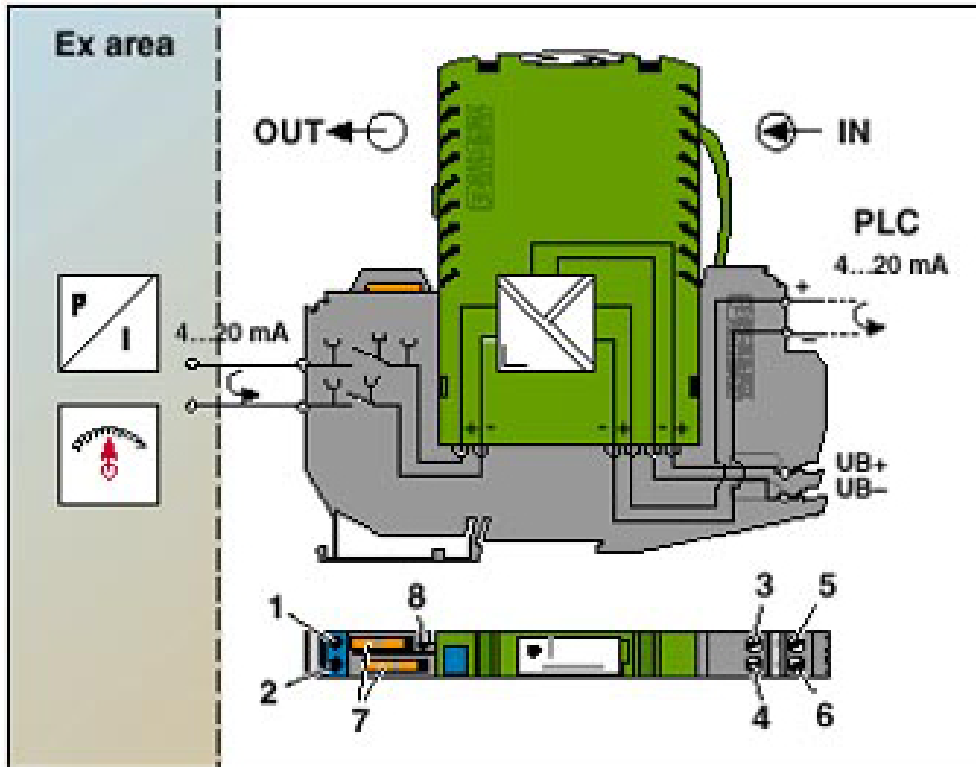


## Drawings

Dimensional drawing



Circuit diagram



- 1** ≙ Output signal "+"
- (Clamping screw with integrated female test connector)
- 2** ≙ Output signal "-"
- (Clamping screw with integrated female test connector)
- 3** ≙ Input signal "+"
- 4** ≙ Input signal "-"
- 5** ≙  $U_{B+}$  / supply "+", 20...35 V DC
- 6** ≙  $U_{B-}$  / supply "-"
- 7** ≙ Disconnect knife with integrated female test connector
- 8** ≙ Female test connector

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## Environmental product compliance

EU REACH SVHC

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