

PI-EX-AIS-I/I - Signal isolator

2835626

<https://www.phoenixcontact.com/us/products/2835626>

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Ex i analog input: input signal conditioner, HART-transparent. Transmits 4 mA ... 20 mA signals from externally supplied measuring transducers installed in the Ex area to a load in the safe area. 3-way electrical isolation (input/output/supply).

Commercial data

Item number	2835626
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1XXX
GTIN	4017918911935
Weight per piece (including packing)	100.5 g
Weight per piece (excluding packing)	100.5 g
Customs tariff number	85438997
Country of origin	DE

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 IN
No. of channels	1

Electrical properties

Step response (10-90%)	< 100 μ 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	375 V (Peak value as per EN 50020 / EN 60079-11)
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Electrical isolation Input/power supply

Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
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Electrical isolation Output/supply

Test voltage	1.5 kV AC (50 Hz, 60 s)
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Supply

Supply voltage range	20 V DC ... 35 V DC
Max. current consumption	< 36 mA (at 24 V)
Power consumption	< 0.9 W (at 24 V)

Input data

Signal

Description of the input	Current input, intrinsically safe
Current input signal	4 mA ... 20 mA
	0 mA ... 20 mA

Output data

Signal

Output description	Current output
Current output signal	4 mA ... 20 mA
	0 mA ... 20 mA
Output current with short-circuit	0 mA
Output current with wire break	0 mA
Load/output load current output	\leq 600 Ω
Output ripple (current)	< 65 μ A _{pp} (For 600 Ω)

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Ex data

Safety data

Max. power P_i	800 mW
Max. output voltage U_o	2.4 V
Max. output current I_o	13 mA
Max. output power P_o	8 mW
Safety-related maximum voltage U_m	250 V AC

Interfaces

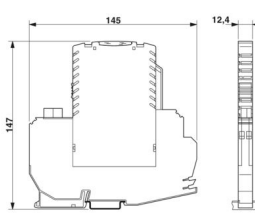
Data communication (bypass)

HART function	Yes
Protocols supported	HART-transparent

Signaling

Status display	Green LED (supply voltage)
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Dimensions

Dimensional drawing	
Width	12.4 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

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

CE

Certificate	CE-compliant
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ATEX

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Identification	Ⓜ II (1) GD [EEx ia] IIC
	Ⓜ II 3 G Ex nA II T4 X

UL, USA/Canada

Identification	applied for
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Standards and regulations

Standards

Standards/regulations	NAMUR recommendation NE 21
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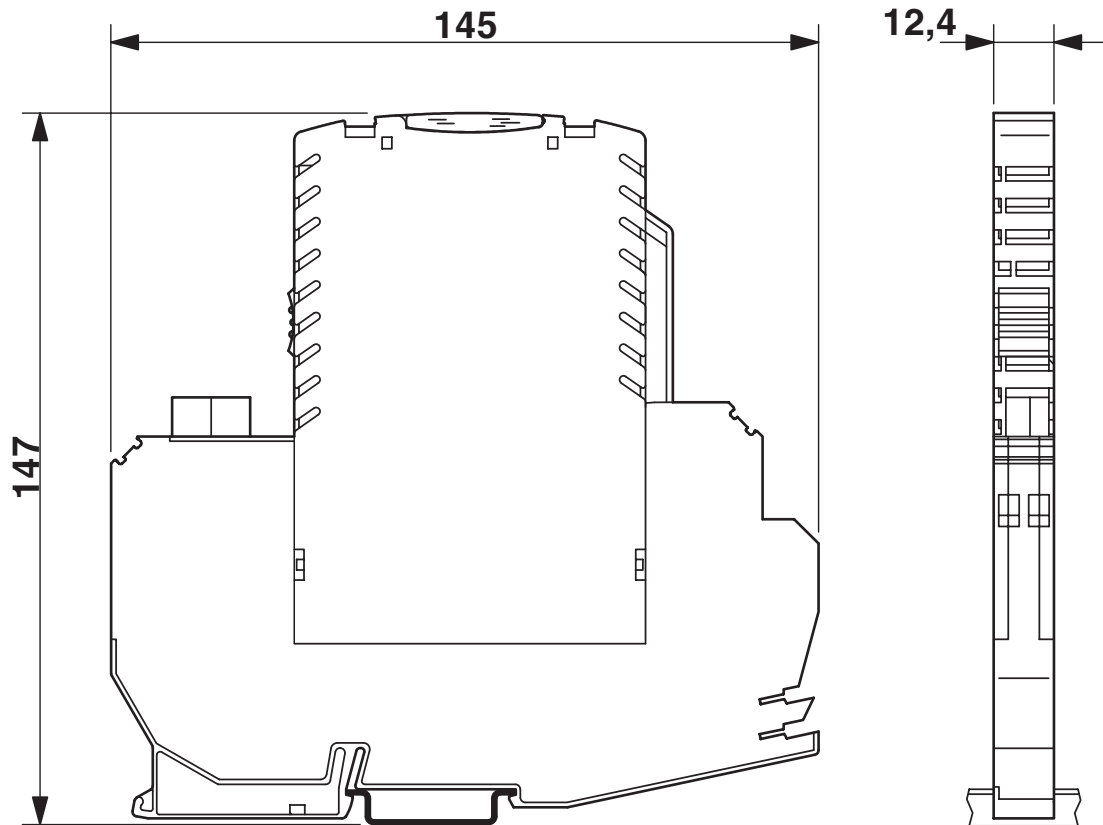
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Drawings

Dimensional drawing



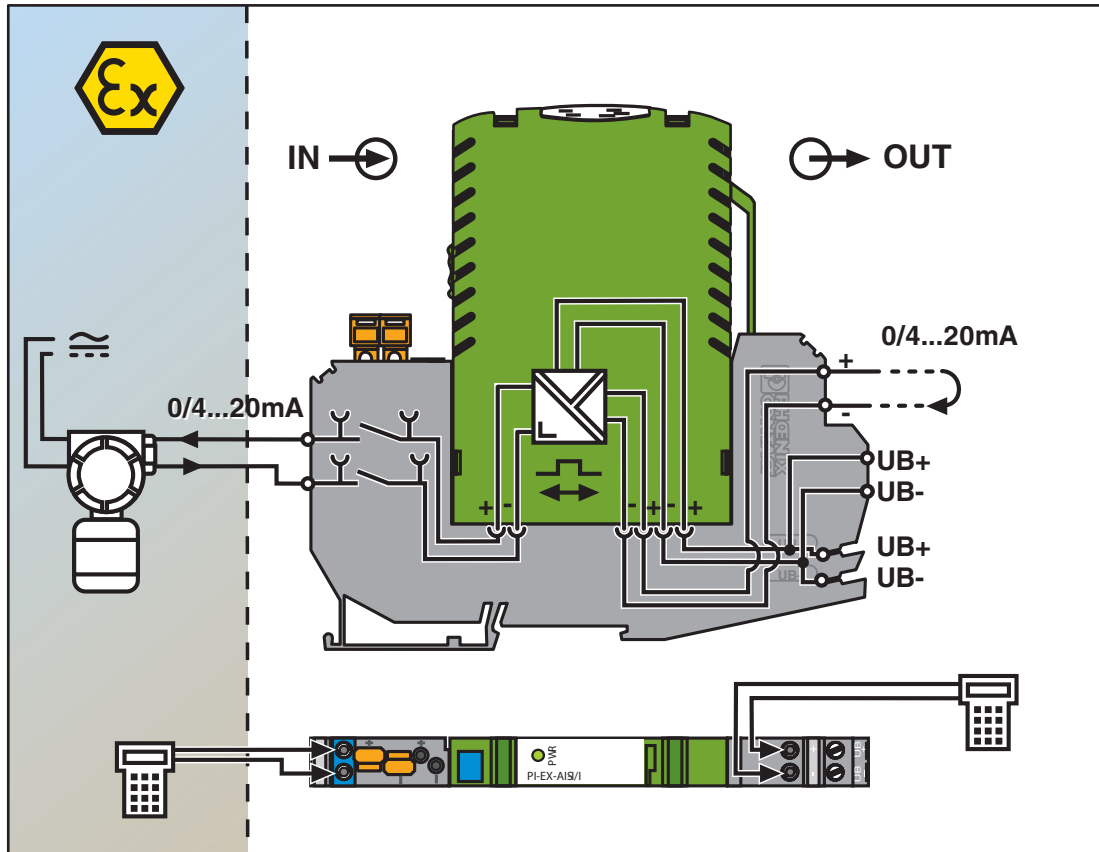
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Block diagram



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Environmental product compliance

EU REACH SVHC

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