

PI-N-UI-UI-AI-NC - Signal isolator



2835862

<https://www.phoenixcontact.com/us/products/2835862>

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Non-Ex Analog Input: input isolating amplifier. Isolates and converts analog standard signals. With configurable input/output. 3-way isolated (input/output/supply). Standard configured.

Commercial data

Item number	2835862
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1XXX
GTIN	4017918907372
Weight per piece (including packing)	93.5 g
Weight per piece (excluding packing)	88.1 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Product properties

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

Electrical properties

Alignment span	$\pm 4 \%$
Alignment zero	$\pm 4 \%$
Limit frequency (3 dB)	30 Hz
Step response (10-90%)	11 ms
Maximum temperature coefficient	$< 0.0075 \%/K$
Maximum transmission error	$\leq 0.1 \%$ (Of end value (at 20°C))

Electrical isolation Input/output

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

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

Supply voltage range	20 V DC ... 30 V DC
Typical current consumption	35 mA (24 V DC / 20 mA)
Max. current consumption	50 mA
Power dissipation	typ. 0.84 W (24 V DC / 20 mA) max. 1.2 W

Input data

Signal

Configurable/programmable	Yes, unconfigured
Voltage input signal	0 V ... 10 V (Indicate different setting for order, different configuration via DIP switch)
Max. voltage input signal	30 V
Max. current input signal	50 mA
Input resistance of voltage input	1 M Ω
Input resistance current input	50 Ω

Output data

Signal

Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V ... 10 V (Indicate different setting for order, different

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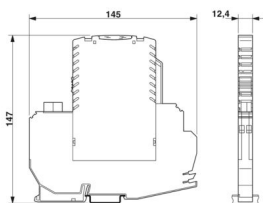
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	configuration via DIP switch)
Max. voltage output signal	15 V
Max. current output signal	45 mA
Load/output load voltage output	$\geq 5 \text{ k}\Omega$
Load/output load current output	$\leq 500 \Omega$
Output ripple (current)	$< 40 \mu\text{A}_{\text{PP}}$ (For 500Ω)

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)	max. $-20 \text{ }^\circ\text{C}$... $60 \text{ }^\circ\text{C}$ (see data sheet)
Ambient temperature (storage/transport)	$-20 \text{ }^\circ\text{C}$... $85 \text{ }^\circ\text{C}$

Approvals

CE

Certificate	CE-compliant
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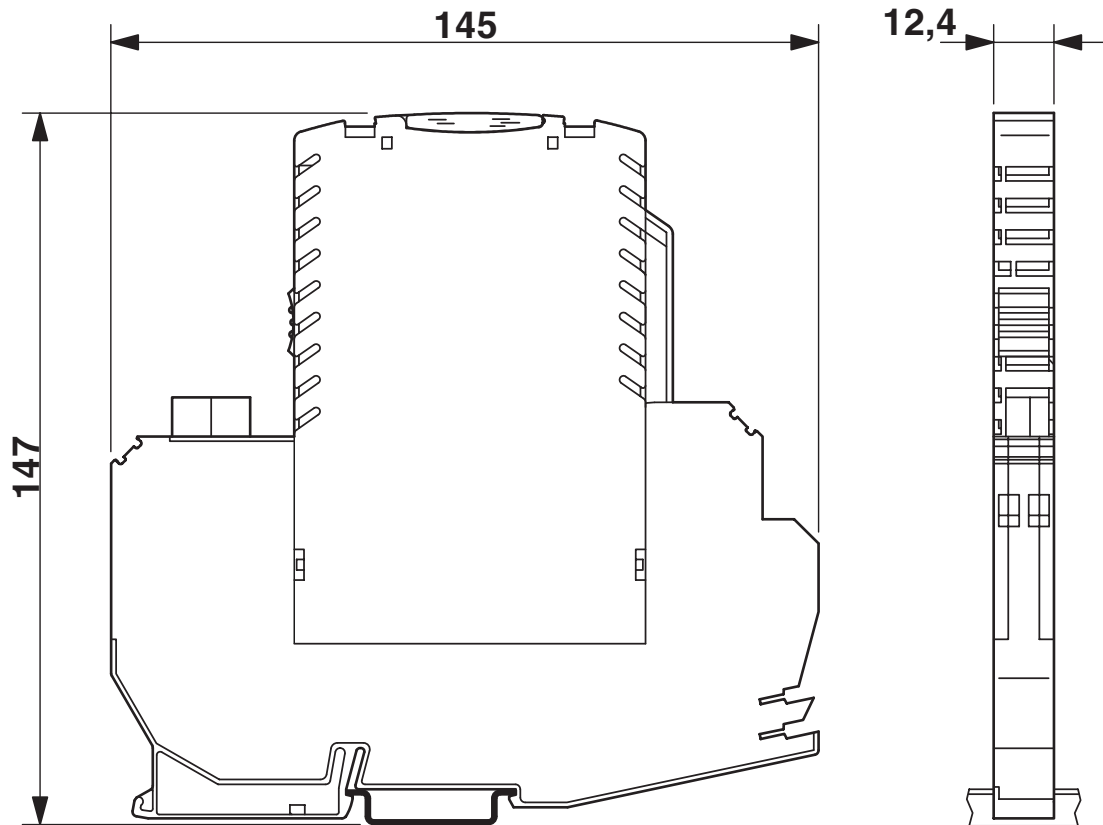
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Drawings

Dimensional drawing

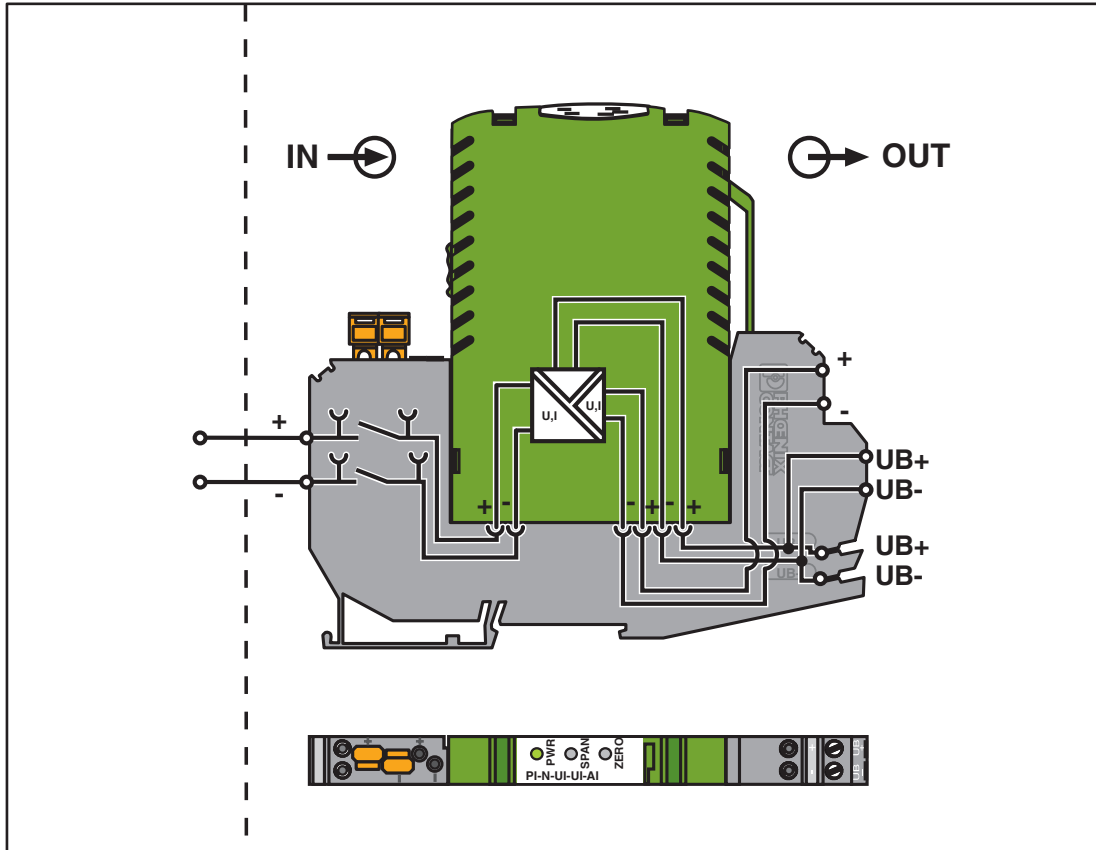


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Block diagram



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Environmental product compliance

EU REACH SVHC

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