

PI-N-UI-UI-AO-NC - Signal isolator



2835684

<https://www.phoenixcontact.com/us/products/2835684>

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Non Ex Analog Output: output signal conditioner. Isolates and converts analog standard signals. With configurable input/output. 3-way isolated (input/output/supply). Non configured.

Commercial data

Item number	2835684
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1XXX
GTIN	4017918907341
Weight per piece (including packing)	88.6 g
Weight per piece (excluding packing)	93.7 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

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

Electrical properties

Alignment span	± 5 %
Alignment zero	± 4 %
Electrical isolation	3-way isolation
Electrical isolation between input and output	yes
Limit frequency (3 dB)	30 Hz
Step response (10-90%)	11 ms
Maximum temperature coefficient	0.0075 %/K
Maximum transmission error	≤ 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 consumption	typ. 0.84 W (24 V DC / 20 mA) max. 1.2 W

Input data

Signal: Voltage/current

Number of inputs	1
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 MΩ
Input resistance current input	50 Ω

Output data

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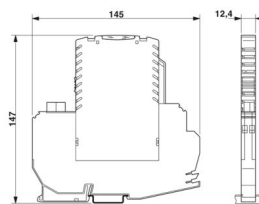
Signal

Number of outputs	1
Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V ... 10 V (Indicate different setting for order, different 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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Standards and regulations

Electrical isolation	3-way isolation
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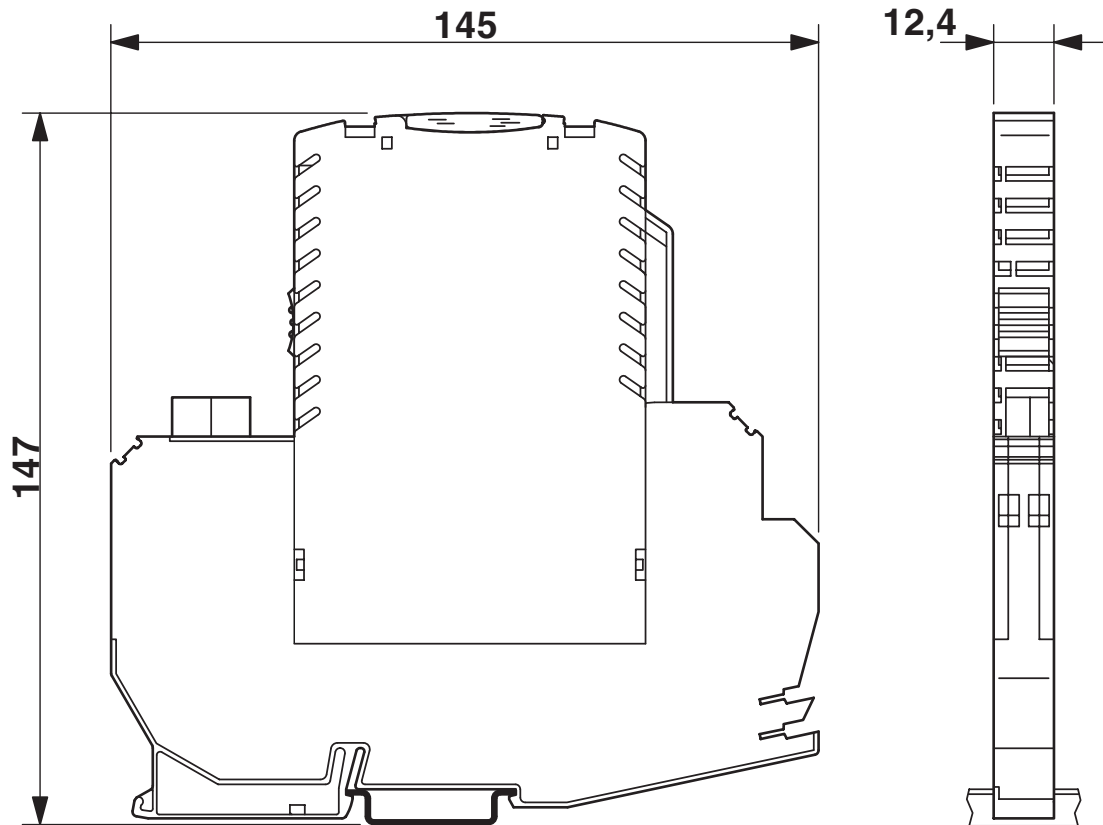
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Drawings

Dimensional drawing

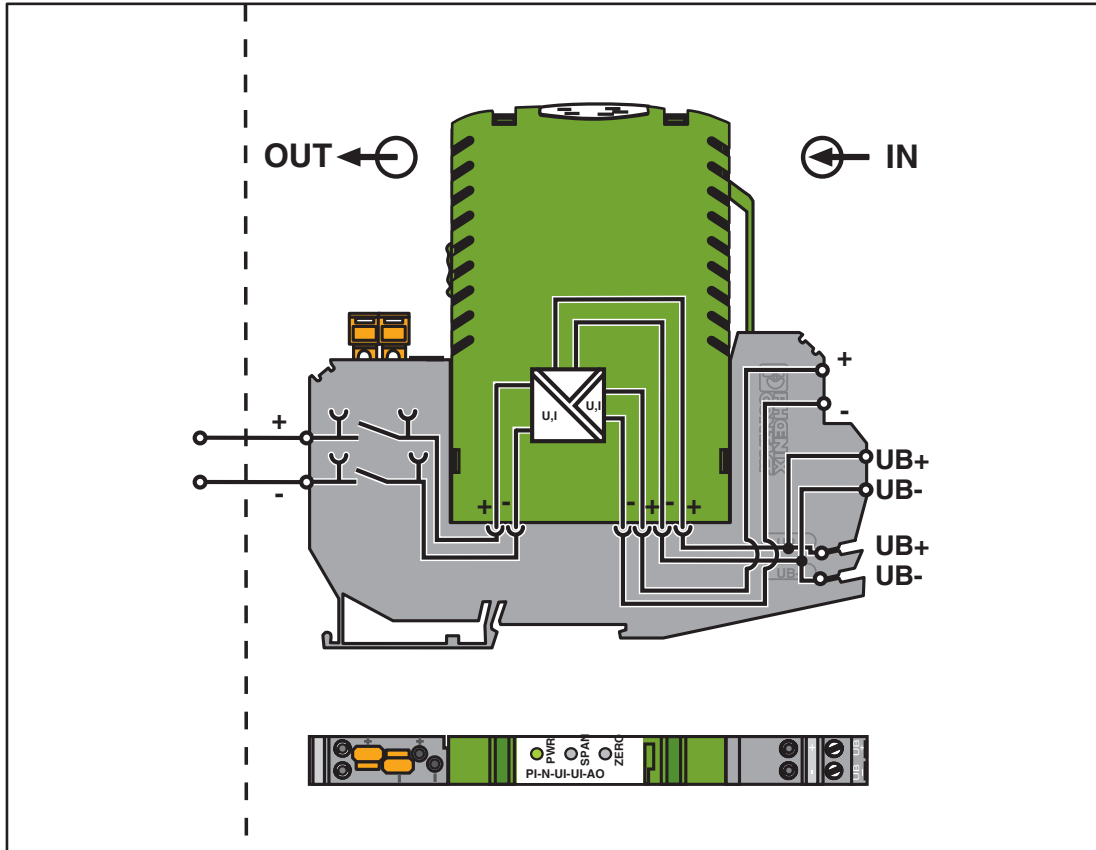


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Block diagram



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Classifications

ECLASS

ECLASS-13.0	27210120
ECLASS-15.0	27210120

ETIM

ETIM 9.0	EC002653
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UNSPSC

UNSPSC 21.0	39121008
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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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