

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



2835684

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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) |
|--------------|-------------------------|

Electrical isolation Input/power supply

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

Electrical isolation Output/supply

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

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

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

2835684

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

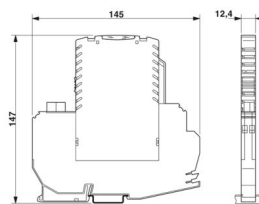
Signal

| | |
|---------------------------------|---|
| 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) |
|----------------|----------------------------|

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 |
|-------------|--------------|

Standards and regulations

| | |
|----------------------|-----------------|
| Electrical isolation | 3-way isolation |
|----------------------|-----------------|

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

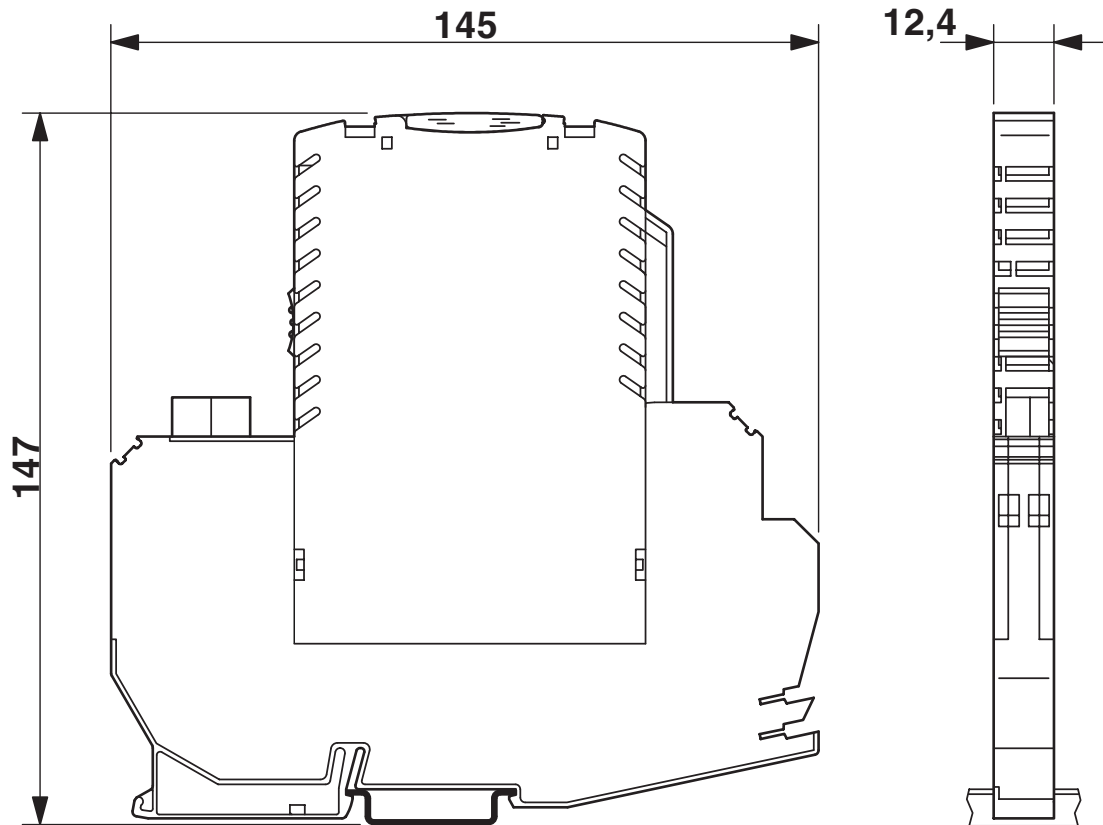


2835684

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

Drawings

Dimensional drawing

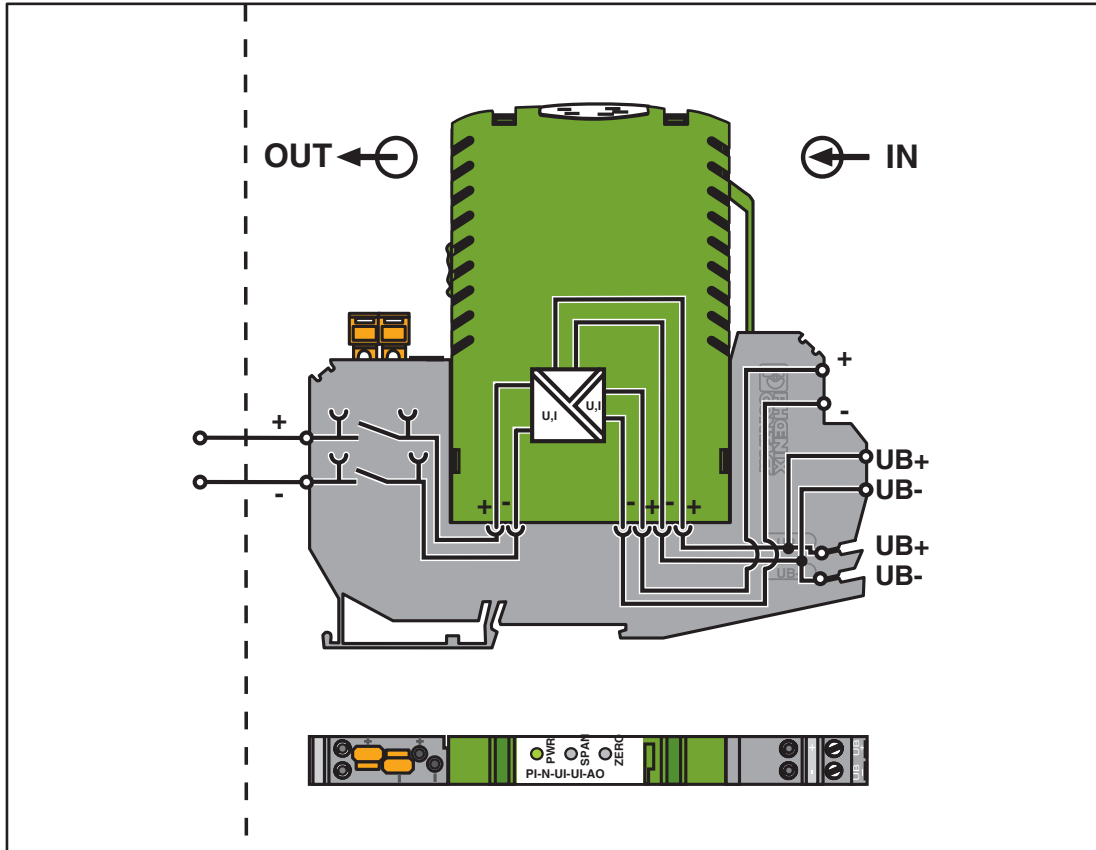


PI-N-UI-UI-AO-NC - Signal isolator

2835684

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

Block diagram



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



2835684

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

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27210120 |
| ECLASS-15.0 | 27210120 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002653 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121008 |
|-------------|----------|

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



2835684

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

Environmental product compliance

EU REACH SVHC

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

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com