

# 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. |
|--------------------|--|

### Product properties

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

### Electrical properties

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Step response (10-90%)          | < 100 $\mu$ 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 | 375 V (Peak value as per EN 50020 / EN 60079-11) |
|----------------------|--|

#### Electrical isolation Input/power supply

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

#### Electrical isolation Output/supply

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

### 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 $\Omega$                            |
| Output ripple (current)           | < 65 $\mu$ A <sub>pp</sub> (For 600 $\Omega$ ) |

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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

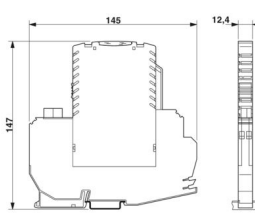
### Data communication (bypass)

|                     |                  |
|---------------------|------------------|
| HART function       | Yes              |
| Protocols supported | HART-transparent |

## Signaling

|                |                            |
|----------------|----------------------------|
| Status display | Green LED (supply voltage) |
|----------------|----------------------------|

## 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 |
|-------------|--------------|

### 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 |
|----------------|-------------|

## Standards and regulations

Standards

|                       |                            |
|-----------------------|----------------------------|
| Standards/regulations | NAMUR recommendation NE 21 |
|-----------------------|----------------------------|

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

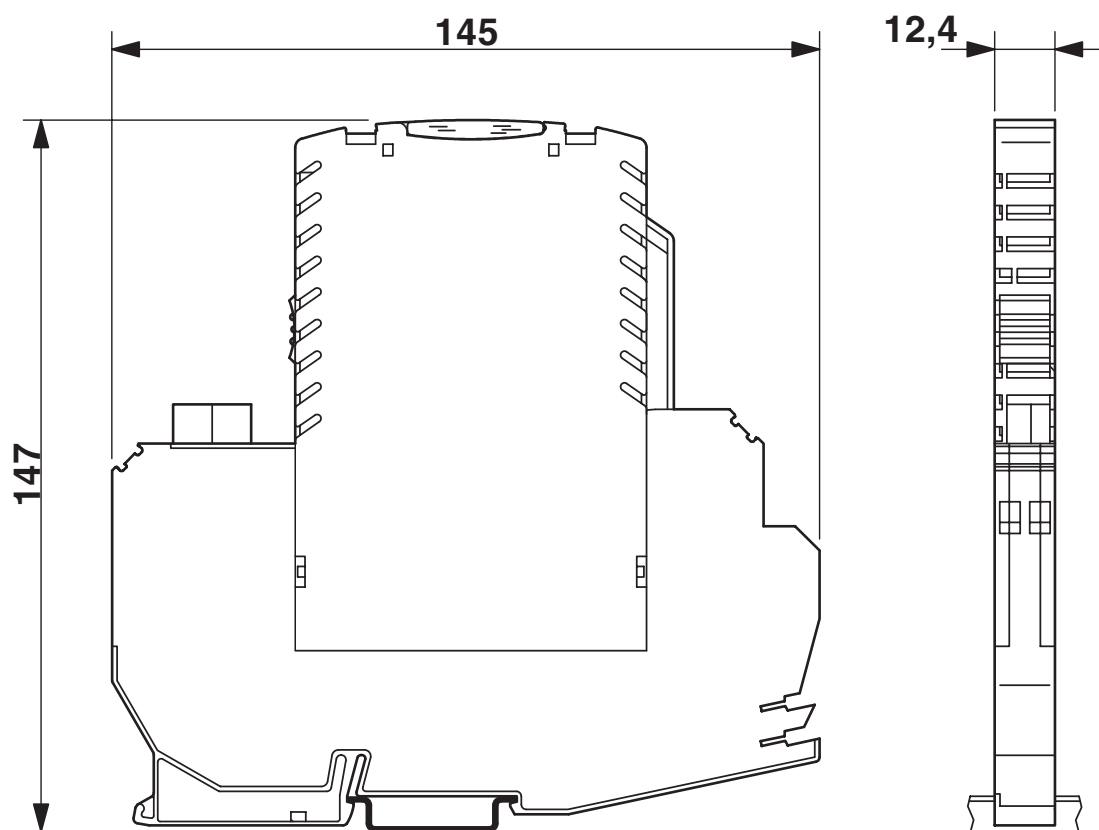
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## Drawings

Dimensional drawing



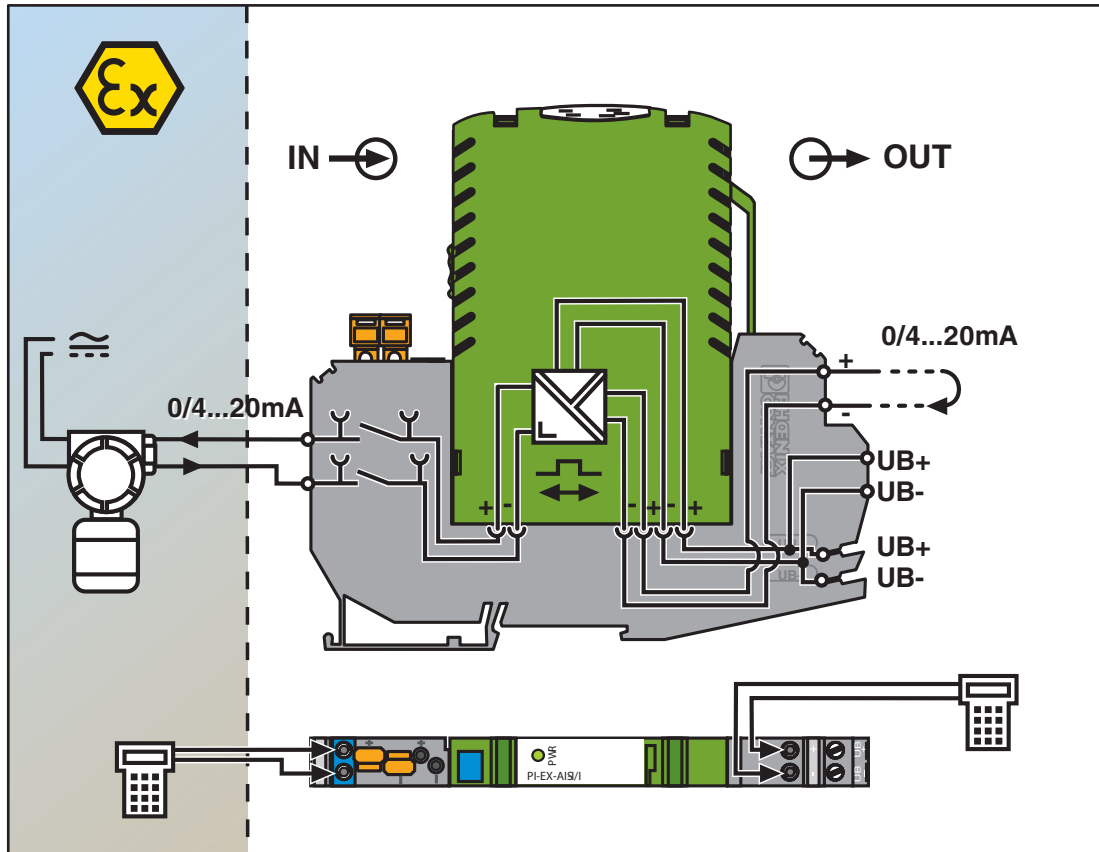
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Block diagram



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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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