

# IB ST 24 AI 4/BP - I/O module



2751564

<https://www.phoenixcontact.com/us/products/2751564>

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INTERBUS-ST analog input module, 4 inputs, 4 - 20 mA, -10 to +10 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics

## Product description

### INTERBUS ST analog input modules

The wide range of INTERBUS analog input modules makes it possible to choose the ideal product for a variety of applications.

All commercially available analog standard sensors with voltage or current signals can be detected. Particular features of the INTERBUS analog input modules are:

- High accuracy of measurement
- Extremely rapid acquisition of measurement values
- Very good interference and common mode suppression
- A constant voltage source for the connection of passive sensors

Moreover, a host of measures guarantee a high standard of operational reliability, even under extreme industrial environmental conditions. In addition to integrated safety systems, such as:

- Watchdog monitoring of the processor, or
- Monitoring the supply voltage, in particular, comprehensive EMC measures, for example, a new shielding concept.

There is a separate shield connection option for each input, without extra external wiring necessary. The connection to protective earth ground is created automatically when the module is snapped onto the DIN rail.

## Your advantages

- Temperature measurement modules
- Standard signal types (voltage and current)

## Commercial data

Item number	2751564
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI341
GTIN	4017918120177
Weight per piece (including packing)	671.8 g
Weight per piece (excluding packing)	600 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	118 mm
Height	117 mm
Length	116 mm

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Material specifications

Color	green
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### Interfaces

#### ST local bus

Connection method	ST local bus connector
Transmission speed	500 kbps
Transmission physics	Copper

### Product properties

Product type	I/O component
Product family	Smart Terminal ST
Type	modular INTERBUS Smart Terminal
No. of channels	4

### Electrical properties

Maximum power dissipation for nominal condition	1.56 W
Test section	Bus/Inputs 500 V AC 50 Hz 1 min Supply voltage/inputs 500 V AC 50 Hz 1 min Supply voltage/Ground conductor 500 V AC 50 Hz 1 min I/O voltage/Ground conductor 500 V AC 50 Hz 1 min

### Supply

Communications power $U_L$	9 V DC (from the ST local bus)
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I/O voltage	± 24 V DC 5 % (ripple)
I/O voltage range	18.5 V DC ... 30.2 V DC
Max. current consumption	125 mA (without passive sensors)
Typical current consumption	65 mA (without passive sensors)

## Connection data

### Connection technology

Connection name	Terminal block
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### Terminal block

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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## Mounting

Mounting type	DIN rail mounting
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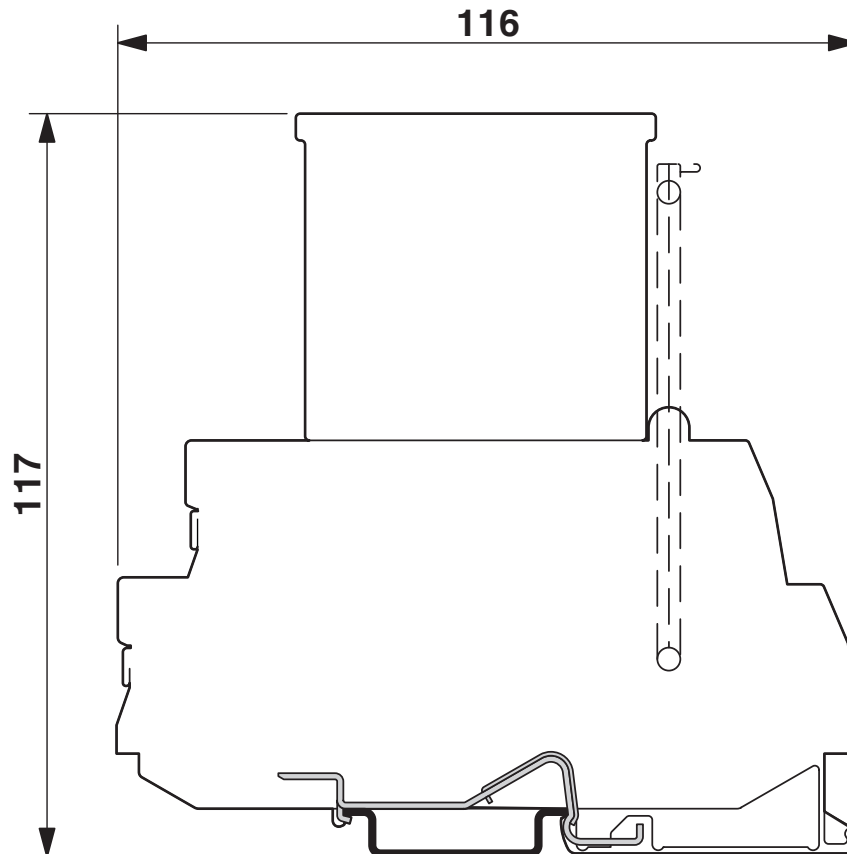
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## Drawings

Dimensional drawing



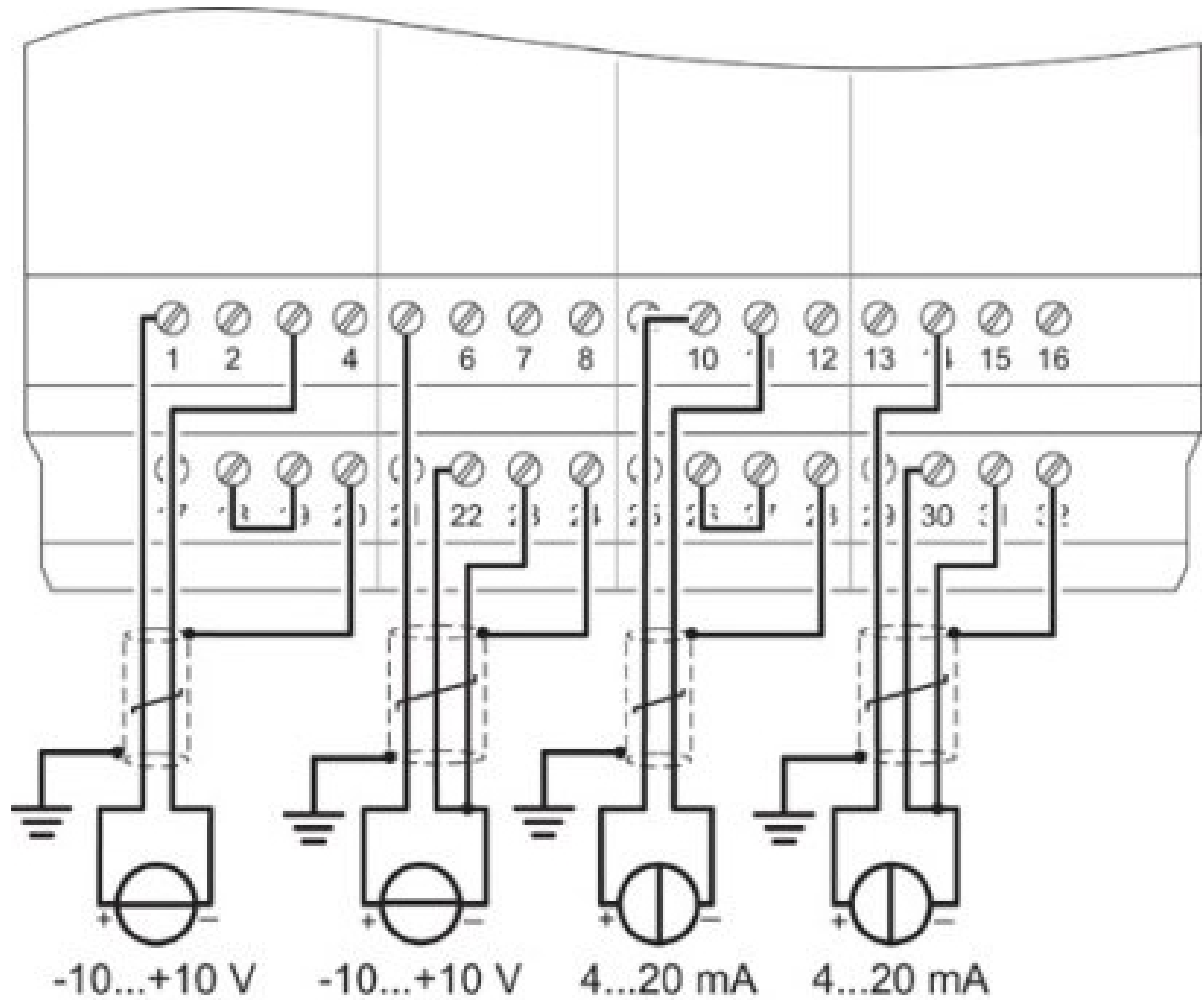
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Connection diagram



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