

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

2754309

<https://www.phoenixcontact.com/us/products/2754309>



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INTERBUS-ST analog input module, 4 inputs, 0 - 20 mA, 0 - 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	2754309
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI341
Catalog page	Page 250 (C-8-2013)
GTIN	4017918063061
Weight per piece (including packing)	666.6 g
Weight per piece (excluding packing)	600 g
Customs tariff number	85389091
Country of origin	DE

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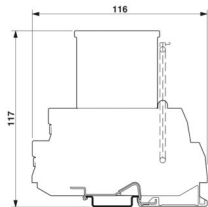
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## Technical data

### 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

### 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	20 V DC ... 30 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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### Conductor connection

Connection method	Screw connection
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12
Stripping length	8 mm

### Terminal block

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm² ... 2.5 mm²
Conductor cross section, flexible	0.2 mm² ... 2.5 mm²
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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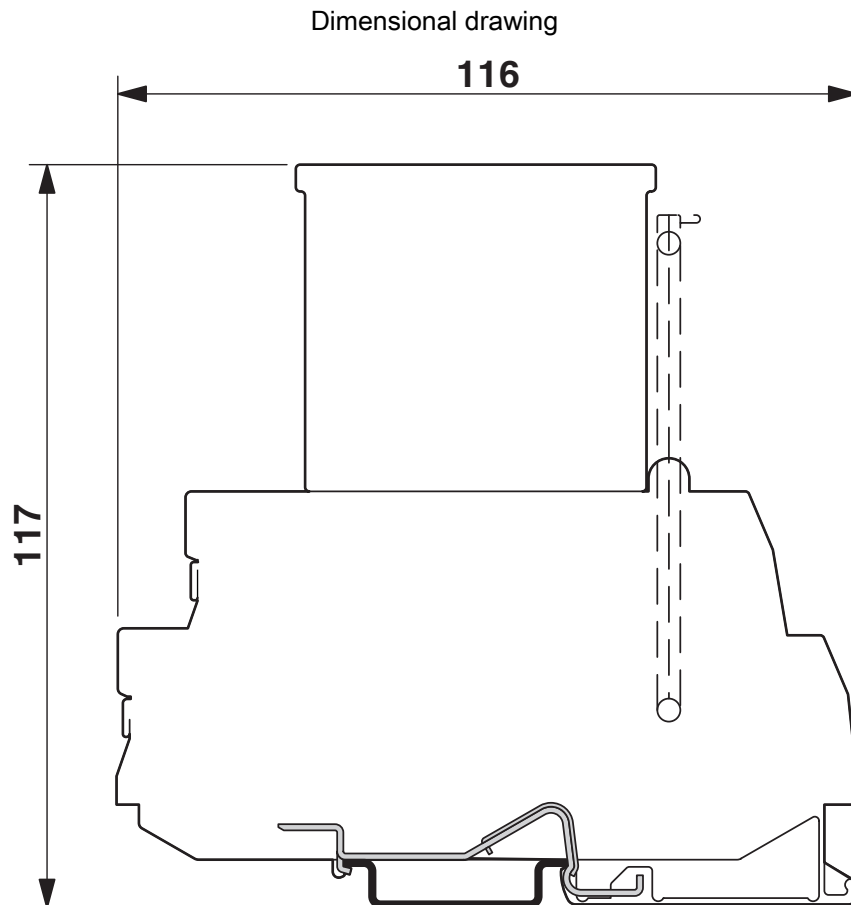
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## Drawings



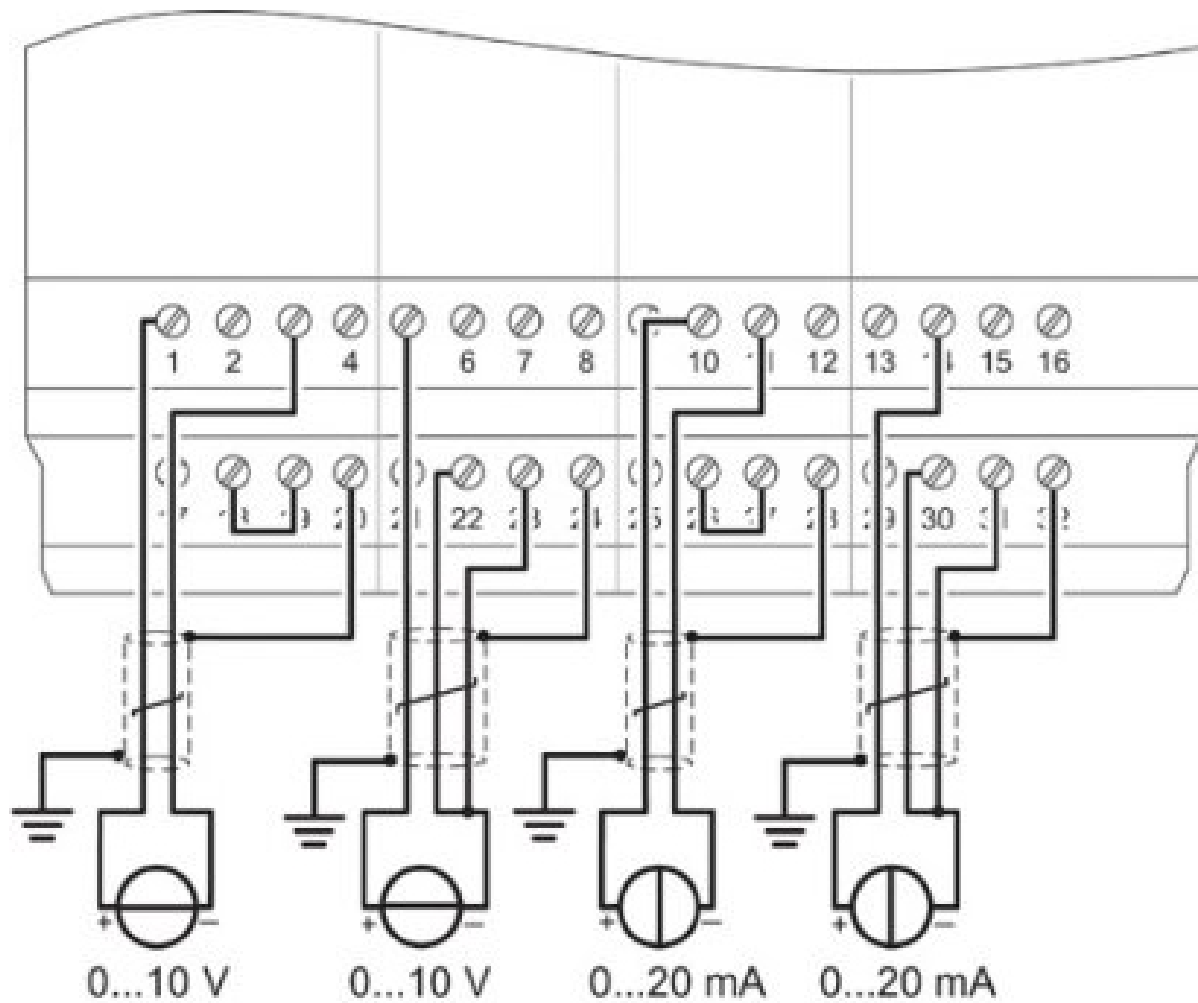
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Connection diagram



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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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## Accessories

### IB STME 24 AI 4/SF - Replacement electronics module

2754383

<https://www.phoenixcontact.com/us/products/2754383>



Replacement module electronics for IB ST (ZF) 24 AI 4/SF

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### IBS TR5 0,2AT - Fuse

2753452

<https://www.phoenixcontact.com/us/products/2753452>



Replacement fuse, for INTERBUS-ST modules

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## IBS TR5 0,4AT - Fuse

2753478

<https://www.phoenixcontact.com/us/products/2753478>

Replacement fuse, for INTERBUS-ST modules



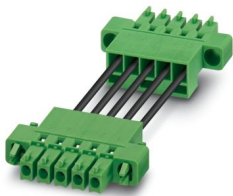
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## IB ST LBC - Bridge

2836492

<https://www.phoenixcontact.com/us/products/2836492>

Spare local bus cable, for INTERBUS-ST modules





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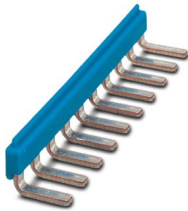


### EB 84 IB ST BU - Insertion bridge

2836269

<https://www.phoenixcontact.com/us/products/2836269>

Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.



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### EB 84 IB ST RD - Insertion bridge

2836272

<https://www.phoenixcontact.com/us/products/2836272>

Insertion bridges, divisible, isolated comb spine, color red, 84-pos.



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## AX+ BASIC - Software

2985068

<https://www.phoenixcontact.com/us/products/2985068>

Software CD for FDT container for integrating device DTMs (free download)



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## AX DTM LIB - Programming software

2988065

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DTM library

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