

IB ST ZF 24 AI 4/SF4 - I/O module

2750594

<https://www.phoenixcontact.com/us/products/2750594>

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The figure shows version IB ST 24
AI 4/SF

INTERBUS-ST analog input module, 4 inputs, 4 - 20 mA, 0 - 10 V, IP20 protection, consisting of: Terminal part with spring-cage 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)
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Spring-cage connection with direct plug-in technology with a release mechanism

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2750594 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR03 |
| Product key | DRI341 |
| GTIN | 4017918140014 |
| Weight per piece (including packing) | 650.1 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 |
|----------|---|

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

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 method | Spring-cage connection |
| Conductor cross-section, rigid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 24 ... 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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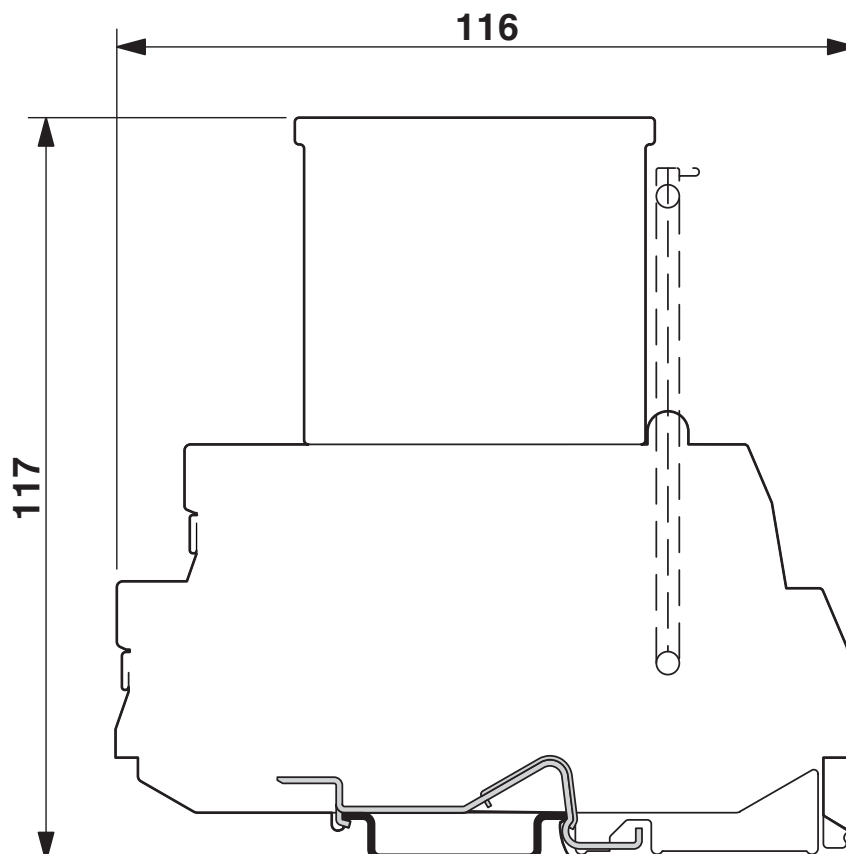
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Drawings

Dimensional drawing

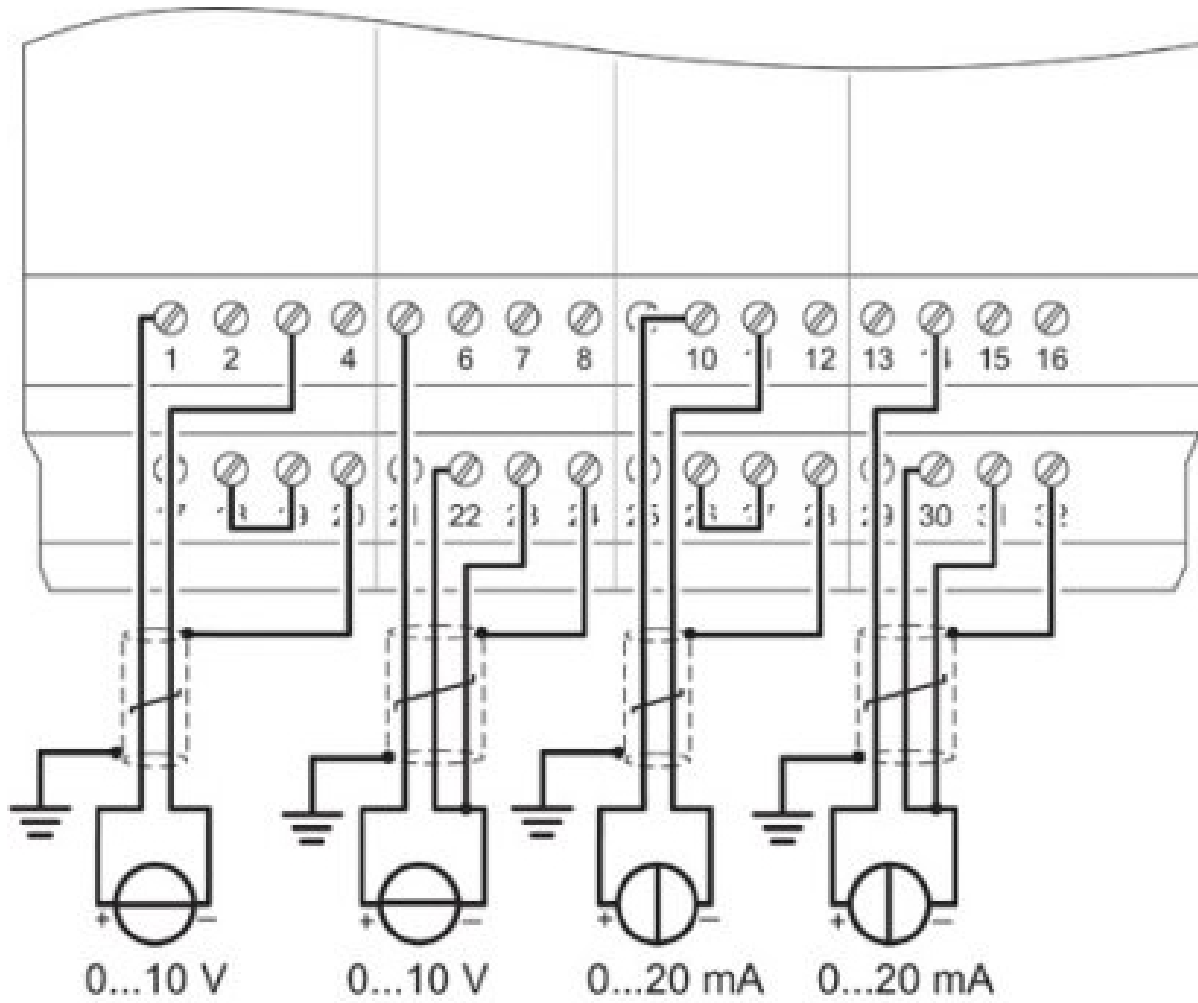


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Connection diagram



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Environmental product compliance

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

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

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