

I/O module - IB ST 24 BAI 8/U

2721015

<https://www.phoenixcontact.com/us/products/2721015>



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INTERBUS-ST analog input module, 8 inputs, 0 to 10 V, 0 to 5 V, 0 to 25 V, 0 to 50 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics

Product Description

INTERBUS ST standard 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 connected. 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.

All the typical advantages of INTERBUS ST handling, such as multi-wire connection method and plug-in electronics are available.

Your advantages

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

Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2721015 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | C21 |
| Product Key | DRI341 |
| Catalog Page | Page 251 (C-8-2013) |
| GTIN | 4017918126964 |
| Weight per Piece (including packing) | 660.5 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

| | |
|-----------------|-------------------------|
| Type | modular |
| | INTERBUS Smart Terminal |
| Product type | I/O component |
| No. of channels | 8 |

Electrical properties

| | |
|---|--|
| No. of channels | 8 (Single-ended voltage inputs) |
| Maximum power dissipation for nominal condition | 1.632 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 | 160 mA (without passive sensors) |
| Typical current consumption | 68 mA (without passive sensors) |

Connection data

Connection technology

| Connection name | Termination block |
|-----------------|-------------------|
| | |

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross section solid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |
| Stripping length | 8 mm |

Termination block

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

Ambient conditions

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

Mounting

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

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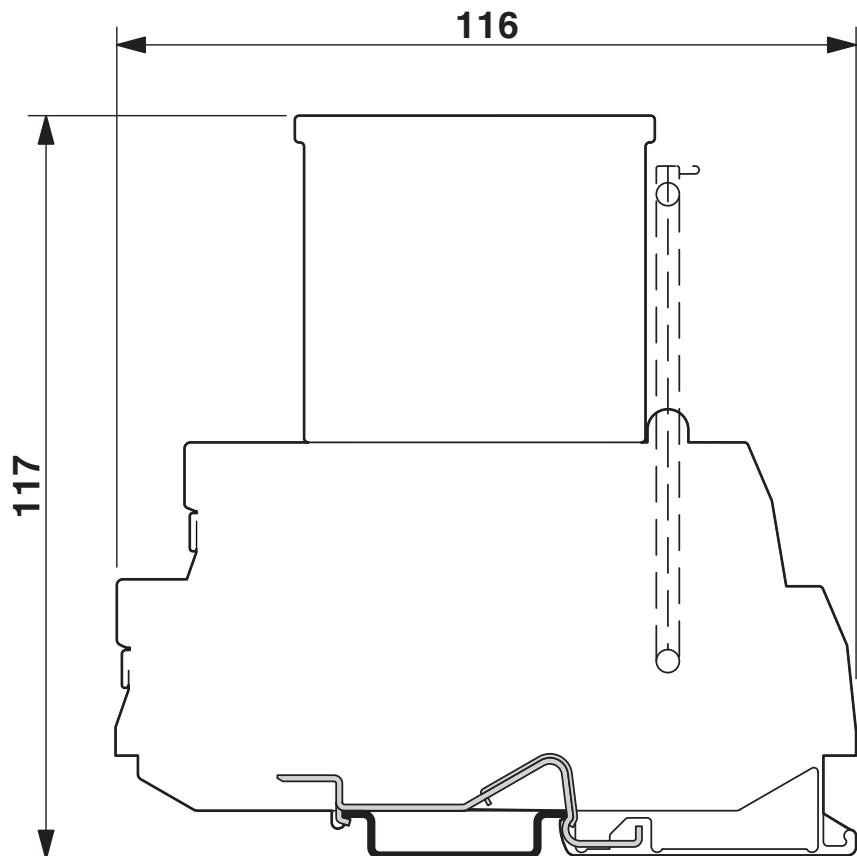
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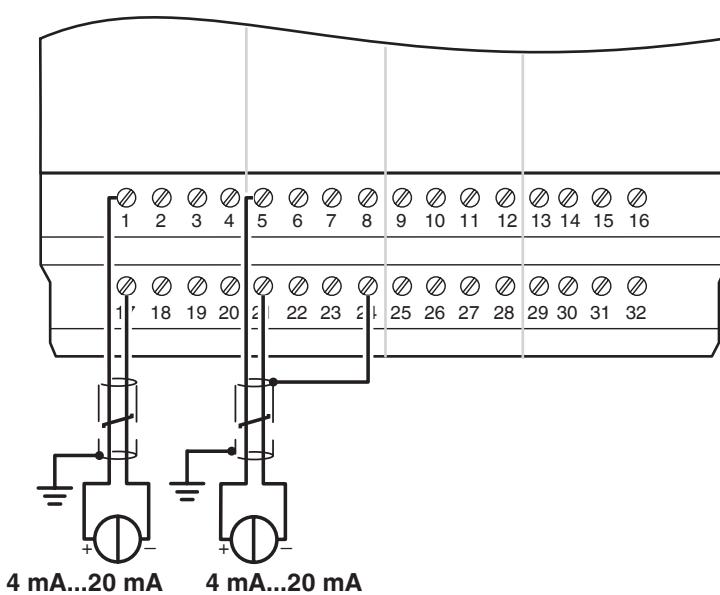


Drawings

Dimensional drawing



Connection diagram



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Classifications

ECLASS

ECLASS-9.0

27242601

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Accessories

Replacement electronics module

Replacement electronics module - IB STME 24 BAI 8/U - 2721219

<https://www.phoenixcontact.com/us/products/2721219>

Replacement module electronics for IB ST (ZF) 24 BAI 8/U



Bridge

Bridge - IB ST LBC - 2836492

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

Spare local bus cable, for INTERBUS-ST modules



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Insertion bridge

Insertion bridge - EB 84 IB ST BU - 2836269

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

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



Insertion bridge

Insertion bridge - EB 84 IB ST RD - 2836272

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



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Fuse

Fuse - IBS TR5 0,2AT - 2753452

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Replacement fuse, for INTERBUS-ST modules



Fuse

Fuse - IBS TR5 0,4AT - 2753478

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Replacement fuse, for INTERBUS-ST modules



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Shield connection

Shield connection - UFBK-SAS - 2763756

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Shield connection clamp for two PLUGTRAB base elements in versions: UFBK... , UAK...



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