

## IB ST ZF 24 BAI 2/BP

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Order No.: 2724957

The illustration shows version IB ST 24 BAI 2/SF



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INTERBUS-ST analog input module, 2 inputs, 0 to 20 mA, 4 to 20 mA, 0 to 10 V, IP20 protection, consisting of: Terminal part with spring-cage connection and module electronics

### Commercial data

EAN	4017918154011
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.3912 KG

<http://>

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### 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 methods and plug-in electronics are provided by all modules.

#### Technical data

##### Interfaces

Interface	ST local bus
Type of connection	ST local bus connector
Transmission physics	Copper

##### Power supply

Communications voltage $U_L$	9 V DC (from the ST local bus)
I/O voltage	24 V DC
Max. power consumption from the local bus	160 mA (from the ST local bus) 140 mA (from the ST local bus)

##### Electrical isolation

Test section	Bus/Inputs 500 V AC 50 Hz 1 min Sensor supply/Ground conductor 500 V AC 50 Hz 1 min
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##### Inputs

No. of channels	2
Note on the number of channels	differential inputs, voltage or current
Connection method	2, 3-wire
Voltage input signal	-10 V ... 10 V
Input resistance of voltage input	> 200 k $\Omega$
Voltage input quantization	4.88 mV
Basic error limit	0.05 %
Current input signal	-20 mA ... 20 mA
Input resistance current input	50 $\Omega$
Current input quantization	9.75 mA
Wire break diagnostics	Yes, diagnostic bit
Basic error limit	0.1 %
Measuring principle	Successive approximation
Measured value monitoring to the PLC	Both channels simultaneously

Representation of measured value	16-bit two's complement
Measured value resolution	12 bits
A/D conversion time	10 µs (per channel)
Process data update	0.55 ms (per channel)/1.1 ms all channels)
Limit frequency (3 dB)	30 Hz
Averaging	Yes

**General data**

Weight	370 g
Width	81 mm
Height	117 mm
Length	116 mm
Mounting type	DIN rail

**Certificates / Approvals**



Certification GOST

**Accessories**

Item	Designation	Description
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**Assembly**

2763756	UFBK-SAS	Shield connection clamp for two PLUGTRAB base elements in versions: UFBK..., UAK...
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**Cable/conductor**

2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
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**Replacement clamping part**

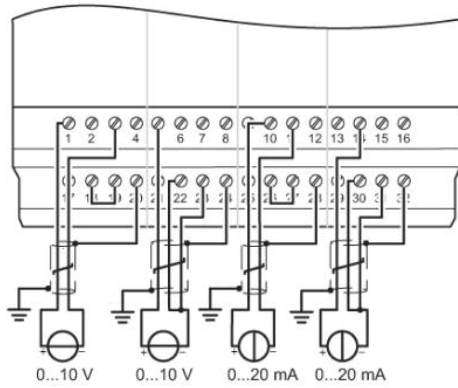
2836049	IB STTB ZF 24 BAI 2/SF	Replacement clamping part for IB ST ZF 24 BAI 2/SF(BP)
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**Replacement module electronics**

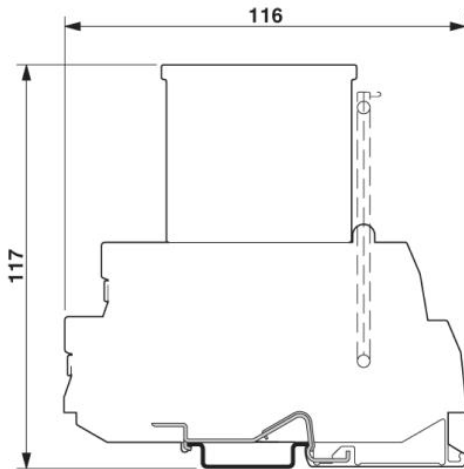
2725215	IB STME 24 BAI 2/BP	Replacement module electronics for B ST (ZF) 24 BAI 2/BP
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## Drawings

### Connection diagram



### Dimensioned drawing



## FAQs

- **Is it possible to set an average value for the channels on the module?**

Yes! The process data output word (control word) can be used to set an average value for both channels. 16 or 8 values are available.

**Address**

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