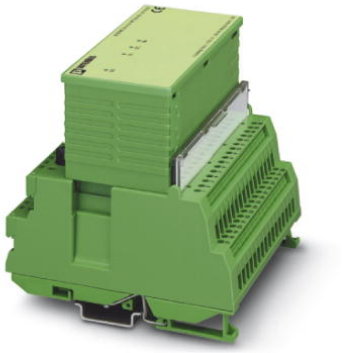
Extract from the online catalog

IB ST 24 BAI 2/SF

Order No.: 2722771



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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 screw connection and module electronics,

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Commercial data	
GTIN (EAN)	4017918154509
sales group	K402
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.3976 KG
Catalog page information	Page 340 (AX-2009)

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 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.

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 5 % (ripple)
Peripherals voltage range	20 V DC ... 30 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
Inputs	
No. of channels	2
Note on the number of channels	differential inputs, voltage or current
Connection method	2, 3-wire
Voltage input signal	0 V ... 10 V
Input resistance of voltage input	> 200 kΩ
Voltage input quantization	2.44 mV
Wire break diagnostics	No
Basic error limit	0.05 %
Current input signal	4 mA ... 20 mA
	0 mA ... 20 mA

Input resistance current input	50 Ω
Current input quantization	3.91 µA (4.88 µA at 0 mA ... 20 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

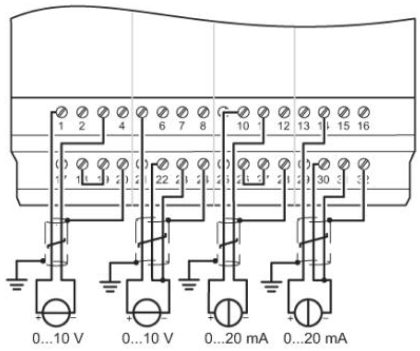
Item	Designation	Description
Bridges		
2836269	EB 84 IB ST BU	Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.
2836272	EB 84 IB ST RD	Insertion bridges, divisible, isolated comb spine, color red, 84-pos.
Cable/conductor		
2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules

Replacement module electronics

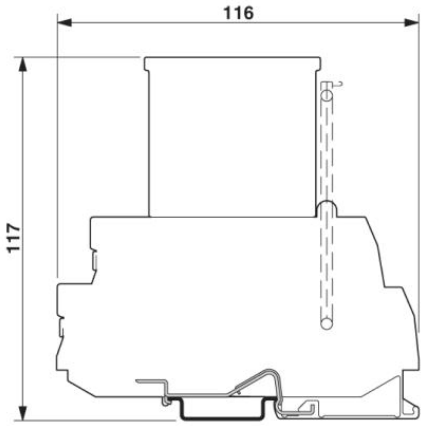
2723961	IB STME 24 BAI 2/SF	Replacement module electronics for IB ST (ZF) 24 BAI 2/SF

Diagrams/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

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057,USA
Phone (800) 888-7388
Fax (717) 944-1625
http://www.phoenixcon.com