

IB ST ZF 24 AI 4/I

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Order No.: 2721264

The illustration shows version IB ST 24 AI 4/I



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

Commercial data

EAN	4017918140489
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.59 KG

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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.

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)
Typical current consumption	45 mA (no supply of sensors)
Max. current consumption	80 mA (no supply of sensors)
I/O voltage	± 24 V DC 5 % (ripple)
Peripherals voltage range	18.5 V DC ... 30.2 V DC
Max. power consumption from the local bus	100 mA (from the ST local bus) 65 mA (from the ST local bus)

Electrical isolation

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
	Input/Input 500 V AC 50 Hz 1 min
	I/O voltage/Ground conductor 500 V AC 50 Hz 1 min

Inputs

No. of channels	4
Note on the number of channels	2 differential inputs, voltage or current can be chosen separately
Connection method	2-wire
Voltage input signal	0 V ... 10 V
Input resistance of voltage input	> 200 k Ω (voltage)
Voltage input quantization	2.44 mV
Wire break diagnostics	No
Overrange diagnostics	Yes, diagnostic bit
Basic error limit	0.025 %

Current input signal	4 mA ... 20 mA
	0 mA ... 20 mA
Input resistance current input	50 Ω (current)
Current input quantization	3.91 μA (4.88 μA at 0 mA ... 20 mA)
Wire break diagnostics	Yes, diagnostic bit
Overrange diagnostics	Yes, diagnostic bit
Basic error limit	0.02 %
Measuring principle	Successive approximation
Measured value monitoring to the PLC	4 channels simultaneously in 4 process data words
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	0.5 ms (per channel/2 ms all channels)
Limit frequency (3 dB)	30 Hz

General data

Weight	465 g
Width	118 mm
Height	117 mm
Length	116 mm
Mounting type	DIN rail

Accessories

Item	Designation	Description
Assembly		
2763756	UFBK-SAS	Shield connection clamp for two PLUGTRAB base elements in versions: UFBK..., UAK...

Cable/conductor

2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
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Fuse

2753478	IBS TR5 0,4AT	Replacement fuse, for INTERBUS-ST modules
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Replacement clamping part

2727336	IB STTB ZF 24 AI 4/I	Replacement clamping part for IB ST ZF 24 AI 4/I
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Replacement module electronics

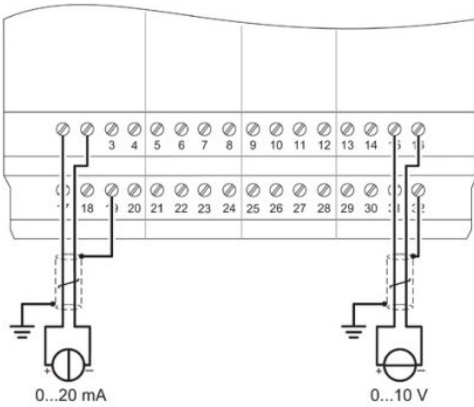
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IB STME 24 AI 4/I

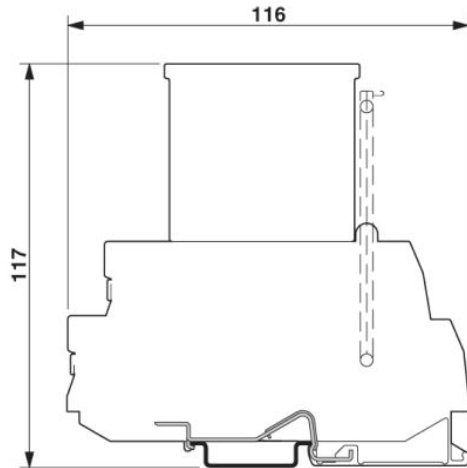
Replacement module electronics for IB ST (ZF) AI 4/I

Drawings

Connection diagram



Dimensioned drawing



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