Extract from the online catalog

IB ST ZF 24 PT100 4/4

Order No.: 2750950

The illustration shows version IB ST 24 PT 100 4/4

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INTERBUS-ST analog input module, 4 inputs, RTD, 2, 3 and 4-wire connection, IP20 protection, consisting of: Terminal part with spring-cage connection and module electronics

Commercial data	
GTIN (EAN)	4 017918 139551
sales group	K402
Pack	1 pcs.
Customs tariff	85389091

Product notes

WEEE/RoHS-compliant since: 11/20/2007

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Product description

INTERBUS ST analog input modules for temperature and resistance measurement

These analog input modules are suitable for recording temperature signals.

Commercially available temperature measuring resistors or thermocouples can be connected.

In addition to the various types of sensors, different characteristics can also be programmed. Further features are:

- A new shielding concept for sensors makes it possible to meet more severe EMC requirements. For each input, there is a separate shield connection. External circuit elements are not necessary.

- Diagnostic LEDs provide information on the operating status at any time.

- All modules can be individually labeled on the large pull-out labeling field. The insert cards can be prepared by hand, or by plotter or printer.

- In the event of failure or malfunction, the electronics of the module can be easily replaced. The passive termination block remains mounted on the rail. This means that the replacement process can be carried out in a just a few seconds and without the need for tools.

- The fuses are accessible from outside, so that a fault can be cleared quickly.

- The connection to protective earth ground is made directly via the DIN rail.

- The conventional labeling materials (Zack strip ZB-6, etc.) can be used to label the termination blocks.

Technical data

Interfaces

Interface	ST local bus
Connection method	ST local bus connector

Power supply

Communications power U_L	9 V DC (from the ST local bus)
I/O voltage	24 V DC
Typical current consumption	85 mA (from the ST local bus)
	50 mA (to U_S)
Max. current consumption	100 mA (from the ST local bus)
	85 mA (to U_S)

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

Inputs

Number of inputs	4
Connection method	2, 3, 4-wire
Sensor types (RTD) that can be used	PT: -200 °C ... +850 °C, Ni: -60 °C ... +250 °C
Measuring principle	Sigma/Delta process
Measured value representation	16-bit two's complement

Measured value resolution	16 bits
Quantization	0.1 K (for Celsius scale, 0.056 K for Fahrenheit scale)
Process data update	258 ms (per channel/816 ms all channels (for 50 Hz suppression))
Basic error limit of the range of values	0.003 %

General data

Degree of protection	IP20
Weight	540 g
Width	118 mm
Height	117 mm
Length	116 mm
Mounting type	DIN rail
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	1.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16

Certificates / Approvals

Certification	GOST

Accessories

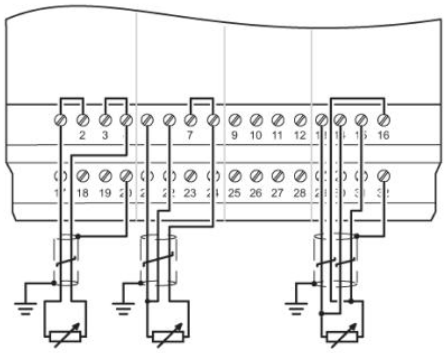
Item	Designation	Description
Cable/conductor		
2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
Fuse		
2753478	IBS TR5 0,4AT	Replacement fuse, for INTERBUS-ST modules

Replacement module electronics

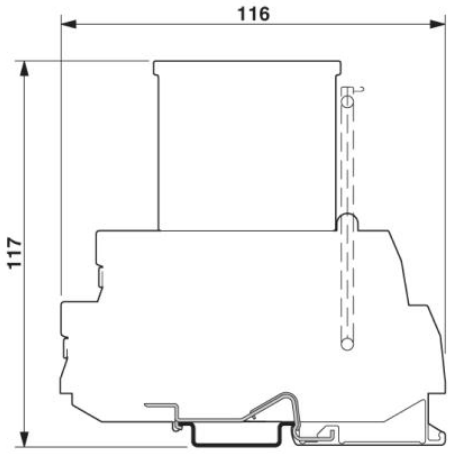
2750138	IB STME 24 PT100 4/4	Replacement module electronics for IB ST (ZF) 24 Pt 100 4/4

Diagrams/Drawings

Connection diagram



Dimensioned drawing



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