

I/O module - IB ST 24 BAI 8/U - 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 modulesThe 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 sensorsMoreover, 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 conceptThere 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.

Product Features

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

Key commercial data

package_quantity	1
GTIN	4017918126964

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	118 mm
Height	117 mm
Length	116 mm

Interfaces

Interface	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kBit/s
Transmission physics	Copper

Power supply

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Technical data

Power supply

Communications power U_L	9 V DC (from the ST local bus)
Typical current consumption	68 mA (without passive sensors)
Max. current consumption	160 mA (without passive sensors)
I/O voltage	± 24 V DC 5 % (ripple)
I/O voltage range	18.5 V DC ... 30.2 V DC
Max. power consumption from the local bus	135 mA (from the ST local bus)
Max. power consumption from the local bus	115 mA (from the ST local bus)

Electrical isolation

Test section	Bus/Inputs 500 V AC 50 Hz 1 min
Test section	Supply voltage/inputs 500 V AC 50 Hz 1 min
Test section	Supply voltage/Ground conductor 500 V AC 50 Hz 1 min
Test section	I/O voltage/Ground conductor 500 V AC 50 Hz 1 min

Inputs

No. of channels	8
Note on the number of channels	single-ended voltage inputs
Connection method	2-wire
Voltage input signal	0 V ... 10 V
Voltage input signal	0 V ... 5 V
Voltage input signal	0 V ... 25 V
Voltage input signal	0 V ... 50 V
Input resistance of voltage input	> 150 k Ω
Voltage input quantization	39 mV (8 bit/2.44 mV 12 bit)
Basic error limit	0.19 %
Measuring principle	Successive approximation
Measured value monitoring to the PLC	8 bits: 2 measured values per data word
Measured value representation	8 bits straight binary
Measured value resolution	8 / 12 bits (can be selected via software)
A/D conversion time	10 μ s (per channel)
Process data update	0.3 ms (per channel / 1.4 ms four channels, 2.8 ms all channels)
Limit frequency (3 dB)	6 kHz

General

Weight	600 g
Mounting type	DIN rail

classifications

eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303

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classifications

eCl@ss

eCl@ss 5.1	27242601
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized /

Approval details


UL Recognized	
Nominal voltage UN	
Nominal current IN	
mm ² /AWG/kcmil	30-12

cUL Recognized	
Nominal voltage UN	
Nominal current IN	
mm ² /AWG/kcmil	30-12

GOST	
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approvals

cULus Recognized  US

accessories

I/O component

IB STME 24 BAI 8/U - 2721219



Bridge

IB ST LBC - 2836492



EB 84 IB ST BU - 2836269



EB 84 IB ST RD - 2836272



Fuse

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accessories

IBS TR5 0,2AT - 2753452



IBS TR5 0,4AT - 2753478



accessories

IB STTB 24 AI 4/SF - 2753067



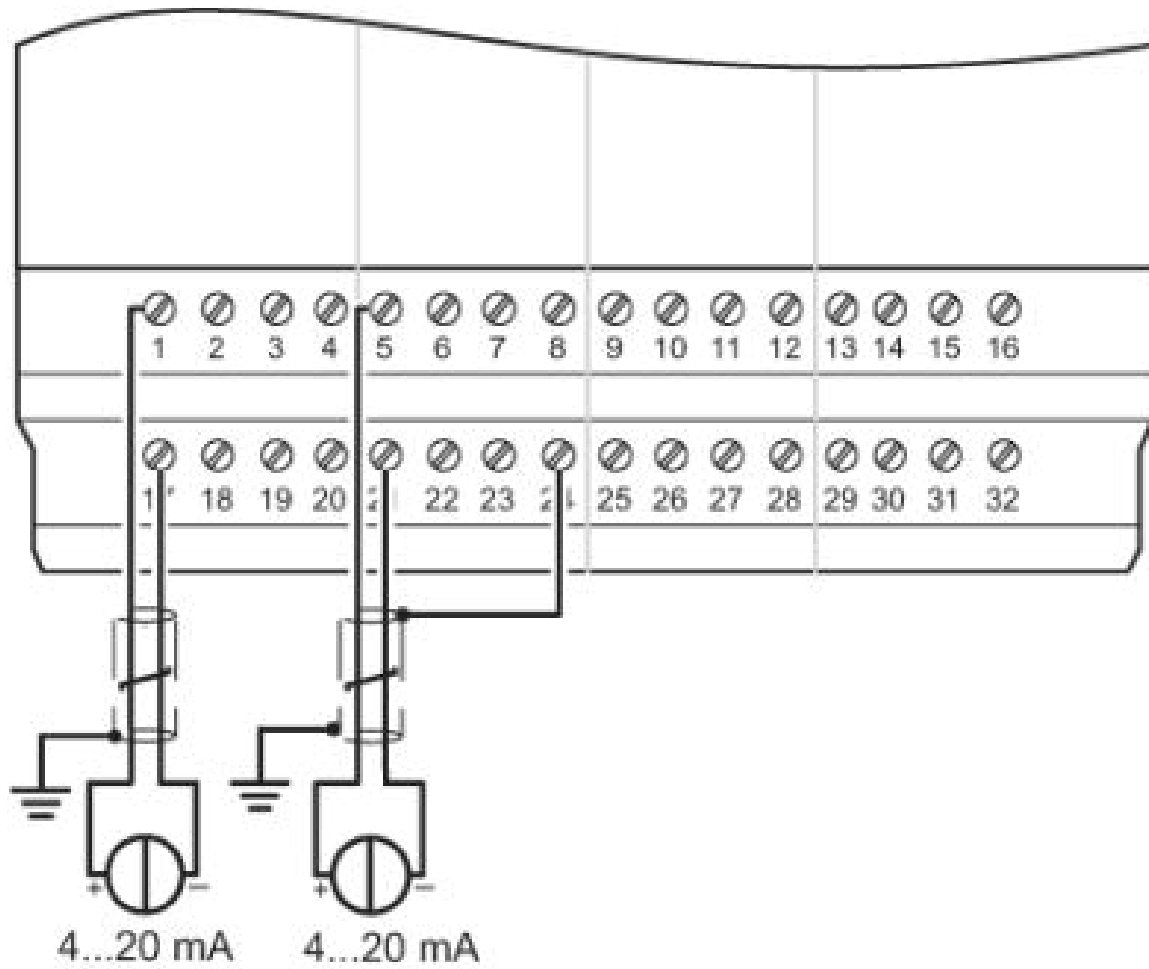
UFBK-SAS - 2763756



Drawings

I/O module - IB ST 24 BAI 8/U - 2721015

Connection diagram



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Dimensioned drawing

