

I/O module - IB ST 24 BDI16/4 - 2750170

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INTERBUS-ST digital input module, 16 inputs, 24 V DC, 4-wire connection method, IP20 protection, consisting of: Terminal part with screw connection and module electronics

Product description

INTERBUS ST standard digital input modules

The digital INTERBUS input modules are designed for the connection of digital control signals, such as those generated by switches, limit switches, electronic proximity switches, and photoelectric switches.

The scope of functions provided by the standard models covers the majority of applications.

All the typical advantages of INTERBUS ST handling, such as multi-wire connection method and plug-in electronics are available.



Key commercial data

Packing unit	1
Minimum order quantity	1
Catalog page	Page 236 (AX-2011)
GTIN	 4 017918 108311
Custom tariff number	85389091
Country of origin	GERMANY

Technical data

Note:

Utilization restriction	The operation of this device does not meet the general EMC protection requirements for residential areas. Please take the appropriate precautions.
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Interface

Fieldbus system	Lokalbus
Name	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kBit/s

Digital inputs

Input name	Digital inputs
Connection method	Screw connection
Connection method	4-wire

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Technical data

Digital inputs

Number of inputs	16
Typical response time	50 µs
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input current at U_{IN}	Typ. 6 mA (per channel)

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Ripple	3.6 V _{pp} within the allowable voltage range
Current consumption	Typ. 100 mA
Communications power U_L	9 V DC
Current consumption	max. 100 mA

General data

Width	118 mm
Height	117 mm
Depth	116 mm
Weight	755 g
Mounting type	DIN rail
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	75 % (on average, 85% infrequently, no condensation)
Permissible humidity (storage/transport)	75 % (on average, 85% infrequently, no condensation)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	Bus logic / I/O 500 V AC 50 Hz 1 min
Test section	Supply voltage logic / I/O 500 V AC 50 Hz 1 min

Classifications

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

UNSPSC

UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

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Classifications

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404

eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604

Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details



Accessories

Accessories

Bridges

Insertion bridge - EB 84 IB ST BU - 2836269



Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.

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Accessories

Insertion bridge - EB 84 IB ST RD - 2836272



Insertion bridges, divisible, isolated comb spine, color red, 84-pos.

Cable/conductor

Jumper - IB ST LBC - 2836492



Spare local bus cable, for INTERBUS-ST modules

Fuse

Fuse - IBS TR5 1AT - 2806600



Replacement fuse, for INTERBUS-ST modules

Replacement module electronics

Replacement electronics module - IB STME 24 BDI 16/4 - 2751687

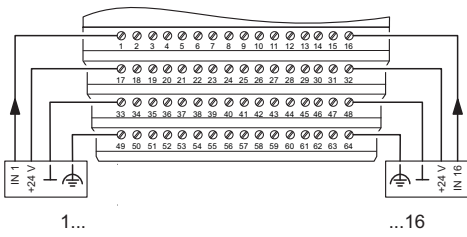


Replacement module electronics for IB ST (ZF) 24 BDI 16/4

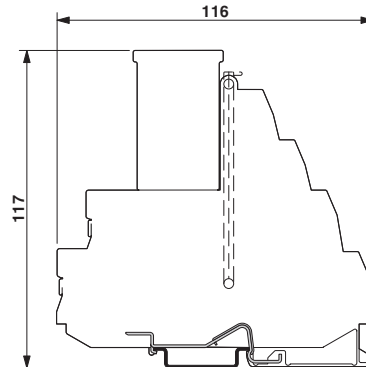
Drawings

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Connection diagram



Dimensioned drawing



Block diagram

