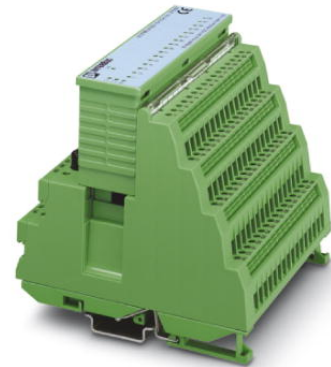


IB ST 24 BDI 16/4

Order No.: 2750170

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2750170>

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

Commercial data

EAN	4017918108311
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.71 KG
Catalog page information	Page 338 (AX-2009)

<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

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.

Technical data

Interface

Fieldbus system	Lokalbus
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Name	ST local bus
Type of connection	ST local bus connector
Digital inputs	
Input name	Digital inputs
Type of connection	Screw connection
Connection method	4-wire
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
Range of supply voltages	20 V DC ... 30 V DC (including ripple)
Ripple	3.6 V _{pp} within the allowable voltage range
Current consumption	Typ. 100 mA
Communications voltage U_L	9 V DC
Current consumption	max. 100 mA
General data	
Width	118 mm
Height	117 mm
Depth	116 mm
Weight	755 g
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 in acc. with DIN 40050/IEC 60529
Class of protection	Class 3 as per VDE 0106, IEC 61440
Test section	Bus logic / I/O 500 V AC 50 Hz 1 min
	Supply voltage logic / I/O 500 V AC 50 Hz 1 min

Mounting type	DIN rail
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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.

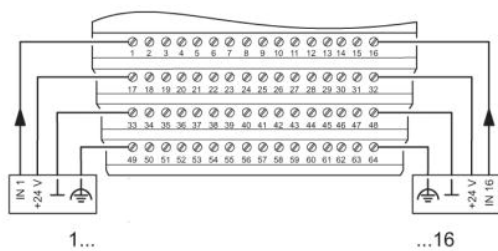
Cable/conductor		
2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules

Fuse		
2806600	IBS TR5 1AT	Replacement fuse for INTERBUS-ST module

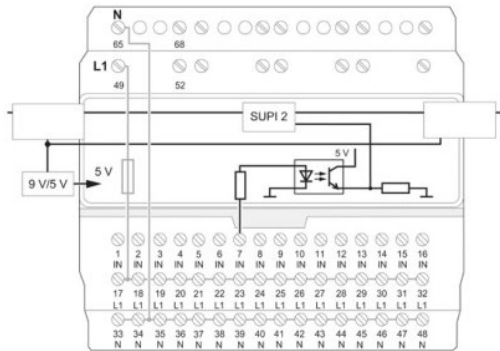
Replacement module electronics		
2751687	IB STME 24 BDI 16/4	Replacement module electronics for IB ST (ZF) 24 BDI 16/4

Diagrams/Drawings

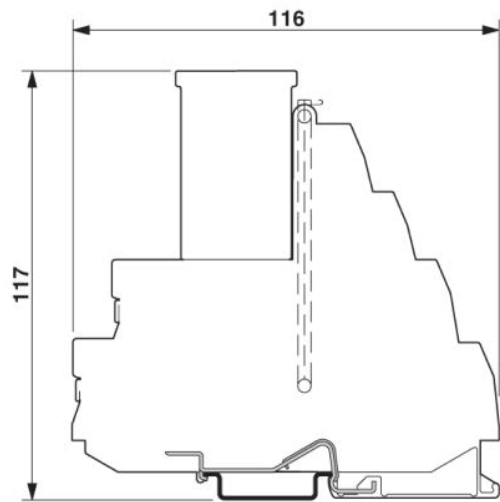
Connection diagram



Block diagram



Dimensioned drawing



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