IB ST ZF 24 BDI 16/4

Order No.: 2750730

The illustration shows version IB ST 24 BDI 16/4

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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 spring-cage connection and module electronics

Product notes

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

Commercial data

GTIN (EAN)	4 017918 132118
sales group	K401
Pack	1 pcs.
Customs tariff	85389091

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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
Name	ST local bus
Connection method	ST local bus connector

Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	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
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)

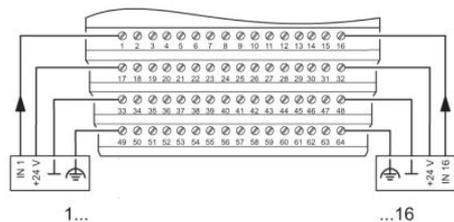| Permissible humidity (storage/transport)	75 % (on average, 85% infrequently, no condensation)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	Bus logic / I/O 500 V AC 50 Hz 1 min
	Supply voltage logic / I/O 500 V AC 50 Hz 1 min

Certificates / Approvals

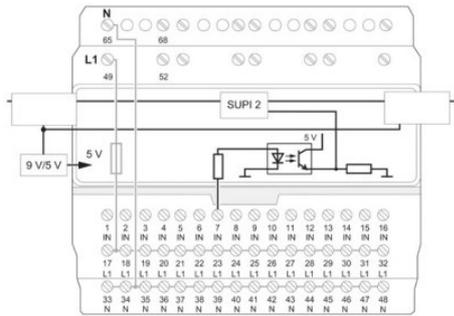Certification   GOST

Accessories

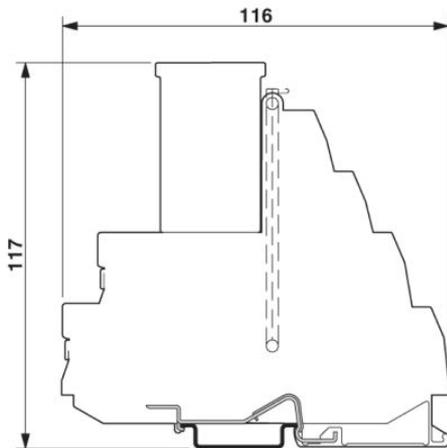| Item	Designation	Description
Cable/conductor		
2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
Fuse		
2806600	IBS TR5 1AT	Replacement fuse for INTERBUS-ST module
Replacement module electronics		
2751687	IB STME 24 BDI 16/4	Replacement module electronics for IB ST (ZF) 24 BDI 16/4

Diagrams/Drawings

Connection diagram

Block diagram

Dimensioned drawing

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