Bus coupler - IBS ST ZF 24 BK-T

2750743

https://www.phoenixcontact.com/us/products/2750743

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INTERBUS-ST bus terminal module, 24 V DC, 9-pos., D-SUB plug, IP20 protection, consisting of: Terminal part with spring-cage connection and module electronics

Product Description

INTERBUS ST standard bus terminal modules
The INTERBUS bus terminal module connects the input/output modules of an ST station with the INTERBUS network.
Depending on the transmission medium used, the bus terminal modules are equipped with different bus connections. For copper conductors, D-SUB and MINI-COMBICON connectors are available. The fiber optic versions are equipped with F-SMA connectors.
The bus terminal modules are available in two different performance classes. A maximum of 4 or 8 input/output modules can be operated on one bus terminal module.
The bus terminal module takes on the following functions within a modular INTERBUS-ST station:
- Refreshing the INTERBUS remote bus signals
- Electrical isolation of the remote bus segments
- Decoupling of the outgoing remote bus or of the connected input/ output modules from the INTERBUS network with a software command
- Supply of the connected input/output modules with an electrically isolated voltage supply from an integrated power supply unit

Your advantages

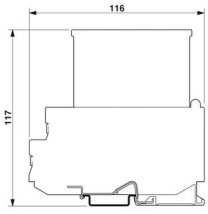
- Up to 8 I/O modules can be connected
- Copper or fiber optic connection
- Spring-cage connection with direct plug-in technology

Commercial Data

Item number	2750743
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C21
Product Key	DRI311
GTIN	4017918108403
Weight per Piece (including packing)	512.4 g
Weight per Piece (excluding packing)	470 g
Customs tariff number	85389091
Country of origin	DE

Technical Data

Dimensions

Dimensional drawing	
Width	81 mm
Height	117 mm
Depth	116 mm

Interfaces

INTERBUS

Connection method	9-pos. D-SUB plug/socket
Designation connection point	Incoming/Outgoing Remote Bus
Number of positions	9

ST local bus

Connection method	ST local bus connector
Transmission speed	500 kbps

Fieldbus: Local bus gateway

Max. number of local bus devices	max. 8

Input data

Digital

Connection technology	Spring-cage connection

Product properties

Type	modular
	INTERBUS Smart Terminal
Product type	I/O component
Mounting position	Horizontal DIN rail

Electrical properties

Maximum power dissipation for nominal condition	15.6 W

Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30.5 V DC (including ripple)
Current consumption	typ. 150 mA (without ST module expansions)

	typ. 650 mA (For maximum number of I/O modules on the ST local bus)
Ripple	3.6 V_{pp} within the allowable voltage range

Connection data

Conductor connection

Connection method	Spring-cage connection
Conductor cross section solid	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm
Connection method	Spring-cage connection
Conductor cross section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	86 kPa ... 108 kPa (up to 1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	30 % ... 75 % (On average, non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (On average, non-condensing)

Standards and regulations

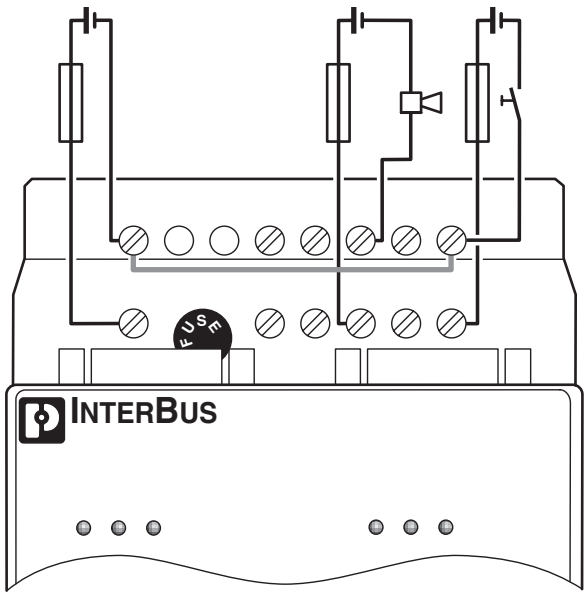
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

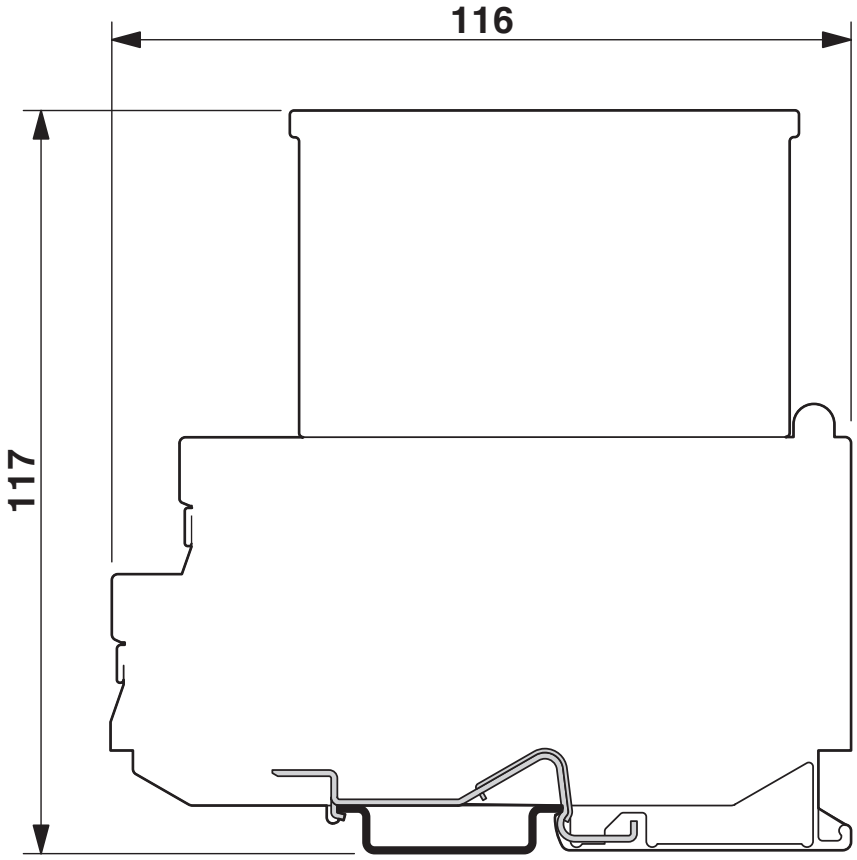
Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

Drawings

Connection diagram



Dimensional drawing



Approvals

cUL Recognized
Approval ID: FILE E 140324

UL Recognized
Approval ID: FILE E 140324

EAC
Approval ID: RU*DE*08.B.00529/19

INTERBUS CLUB
Approval ID: 267/03.07.00

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Classifications

ECLASS

ECLASS-9.0	27242608
ECLASS-10.0.1	27242608
ECLASS-11.0	27242608

ETIM

ETIM 8.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

Accessories

Replacement electronics module

Replacement electronics module - IBS STME 24 BK-T - 2754367

https://www.phoenixcontact.com/us/products/2754367

Replacement module electronics for IB ST (ZF) 24 BK-T

Fuse

Fuse - IBS TR5 1AT - 2806600

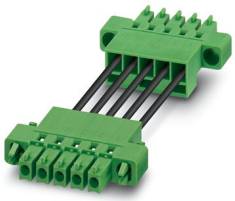
https://www.phoenixcontact.com/us/products/2806600

Replacement fuse, for INTERBUS-ST modules

Bridge

Bridge - IB ST LBC - 2836492

https://www.phoenixcontact.com/us/products/2836492



Spare local bus cable, for INTERBUS-ST modules

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