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I/O module - IB ST 24 DI32/2 - 2754927

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INTERBUS-ST digital input module, 32 inputs, 24 V DC, 2-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.

Your advantages

☑ 32 digital inputs

☑ Connection of sensors in 2-wire technology

☑ Diagnostic and status indicators

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 063405
GTIN	4017918063405
Weight per Piece (excluding packing)	703.600 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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

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Technical data

Dimensions

Width	118 mm
Height	117 mm
Depth	116 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Degree of protection	IP20

Interfaces

Designation	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kbps

Digital inputs

Input name	Digital inputs
Connection method	Screw connection
Connection technology	2-wire
Number of inputs	32
Typical response time	3 ms (typical)
Nominal input current at U_{IN}	typ. 5 mA (per channel)
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 6 V DC
Input voltage range "1" signal	13 V DC ... 30 V DC

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. 200 mA

General

Mounting type	DIN rail
Net weight	689 g
Mounting position	Horizontal DIN rail

Electrical isolation

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Technical data

Electrical isolation

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

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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Dimensional drawing
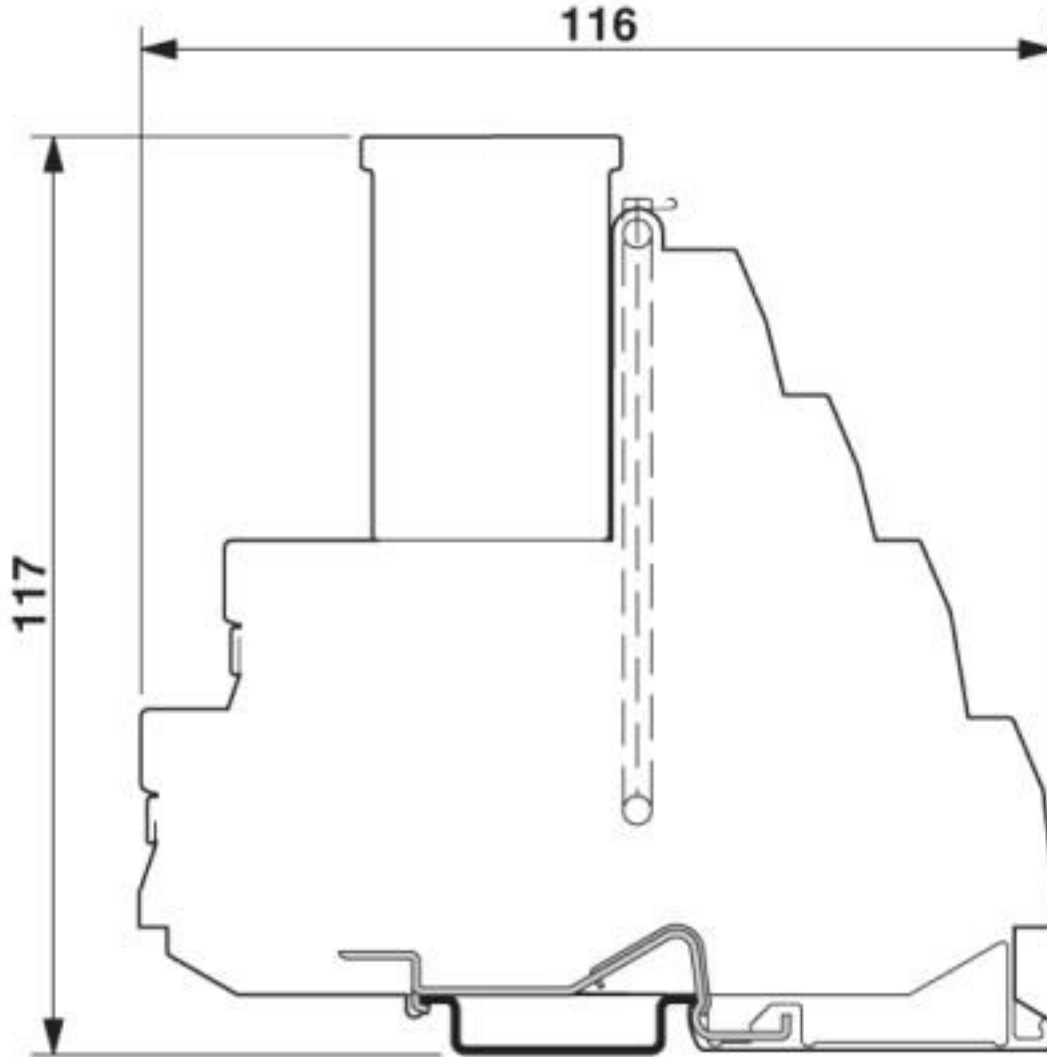
Classifications

eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604

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Classifications

eCl@ss

eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

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Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
mm²/AWG/kcmil		30-12	

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
mm²/AWG/kcmil		30-12	

EAC		EAC-Zulassung

cULus Recognized	

Accessories

Accessories

Bridge

Jumper - IB ST LBC - 2836492

Spare local bus cable, for INTERBUS-ST modules

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.

Device parameterization

Software - AX+ BASIC - 2985068

Software CD for FDT container for integrating device DTMs (free download)

Fuse

Fuse - IBS TR5 2AT - 2752505

Replacement fuse, for INTERBUS-ST modules

I/O component

Replacement electronics module - IB STME 24 DI32/2 - 2754985

Replacement module electronics for IB ST (ZF) 24 DI 32/2

Programming

I/O module - IB ST 24 DI32/2 - 2754927

Accessories

Software - AX DTM LIB - 2988065

DTM library

Replacement clamping part - IB STTB 24 DI 32/2 - 2753012

Replacement clamping part for IB ST 24 DI 32/2