

## I/O module - IB ST 24 DI 16/4 - 2754338

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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

The figure shows version IB ST 24  
BDI 16/4

### Product Description

INTERBUS ST 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

- 16 digital inputs
- Connection of sensors in 2, 3, and 4-wire technology
- Short-circuit protection for the sensor supply
- Diagnostic and status indicators

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 063092
GTIN	4017918063092
Weight per Piece (excluding packing)	735.400 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

Note

# I/O module - IB ST 24 DI 16/4 - 2754338

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### 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	4-wire
Number of inputs	16
Typical response time	3 ms (typical)
Nominal input current at $U_{IN}$	typ. 7 mA (per channel)
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 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 <sub>pp</sub> within the allowable voltage range
Current consumption	typ. 100 mA

### General

Mounting type	DIN rail
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### Technical data

#### General

Net weight	735.4 g
Mounting position	Horizontal DIN rail

#### 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)

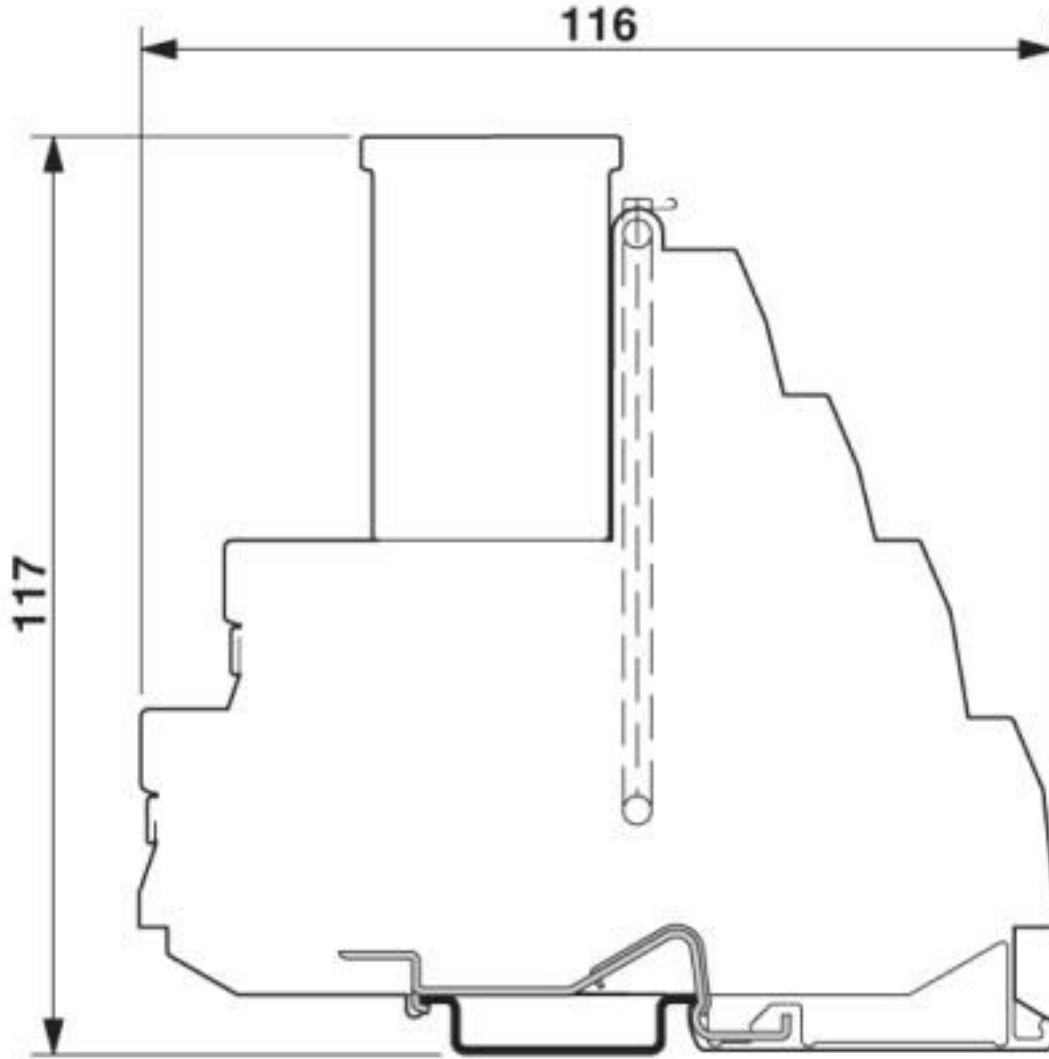
#### Environmental Product Compliance

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

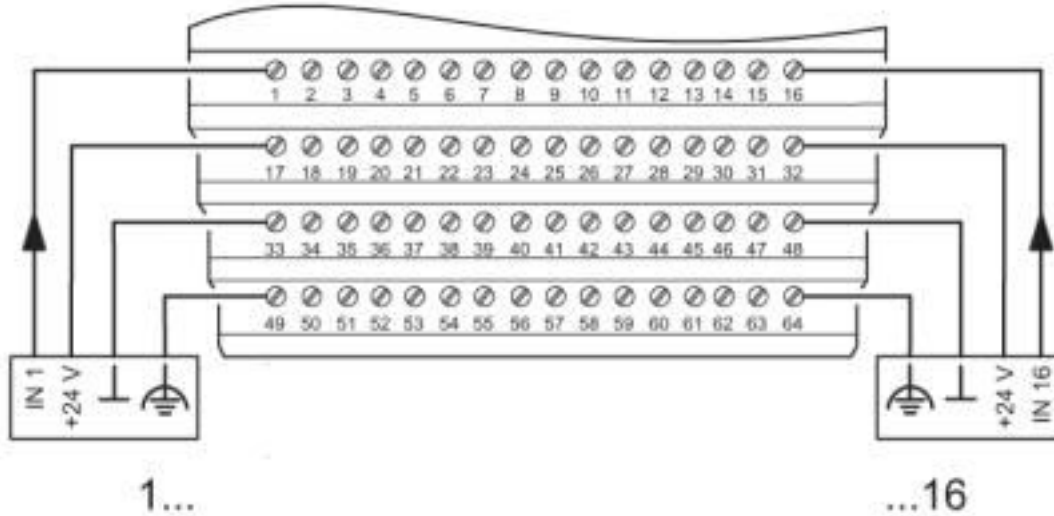
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Dimensional drawing



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Connection diagram



## 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
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

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## Classifications

### UNSPSC

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


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UL Recognized / cUL Recognized / EAC / cULus Recognized


#### Ex Approvals

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
mm <sup>2</sup> /AWG/kcmil		30-12	

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
mm <sup>2</sup> /AWG/kcmil		30-12	

EAC		EAC-Zulassung
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cULus Recognized	
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### Accessories

#### Accessories

#### Bridge

Jumper - IB ST LBC - 2836492



Spare local bus cable, for INTERBUS-ST modules

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Insertion bridge - EB 84 IB ST BU - 2836269



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

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Insertion bridge - EB 84 IB ST RD - 2836272



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

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#### Fuse

Fuse - IBS TR5 1AT - 2806600



Replacement fuse, for INTERBUS-ST modules

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#### I/O component

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### Accessories

Replacement electronics module - IB STME 24 DI 16/4 - 2754396



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

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Replacement clamping part - IB STTB 24 DI 16/4 - 2755007



Replacement clamping part for IB ST 24 DI 16/4

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