

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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 illustration 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.

### Product Features

- 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
Weight per Piece (excluding packing)	735.4 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
-------------------------	---

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

## 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 mean sea level)
Air pressure (storage/transport)	80 kPa ... 108 kPa (up to 2000 m above mean sea level)
Degree of protection	IP20

### Interfaces

Fieldbus system	Lokalbus
Designation	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kBit/s

### Digital inputs

Input name	Digital inputs
Connection method	Screw connection
	4-wire
Number of inputs	16
Typical response time	3 ms (typical)
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
Nominal input current at $U_{IN}$	typ. 7 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 <sub>pp</sub> within the allowable voltage range
Current consumption	typ. 100 mA
Communications power $U_L$	9 V DC
Current consumption	max. 100 mA

### General

Mounting type	DIN rail
---------------	----------

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

## Technical data

### General

Net weight	740 g
------------	-------

### Standards and Regulations

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

## Classifications

### eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
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

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Approvals

### Approvals

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

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

---

#### Ex Approvals

---

#### Approvals submitted

---

#### Approval details

UL Recognized 	
mm <sup>2</sup> /AWG/kcmil	30-12

cUL Recognized 	
mm <sup>2</sup> /AWG/kcmil	30-12

EAC
-----

cULus Recognized 
--

### Accessories

#### Accessories

#### Bridge

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

### Accessories

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.

---

Insertion bridge - EB 84 IB ST RD - 2836272



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

---

### Fuse

Fuse - IBS TR5 1AT - 2806600



Replacement fuse, for INTERBUS-ST modules

---

### I/O component

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



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

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

### Accessories

---

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



Replacement clamping part for IB ST 24 DI 16/4

---

### Spare parts

Jumper - IB ST LBC - 2836492



Spare local bus cable, for INTERBUS-ST modules

---

Fuse - IBS TR5 1AT - 2806600



Replacement fuse, for INTERBUS-ST modules

---

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



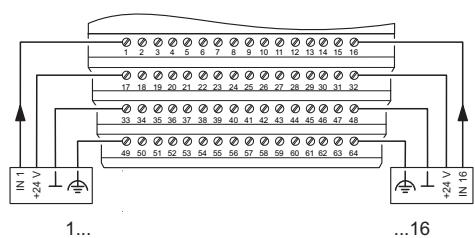
Replacement module electronics for IB ST (ZF) 24 DI 16/4

---

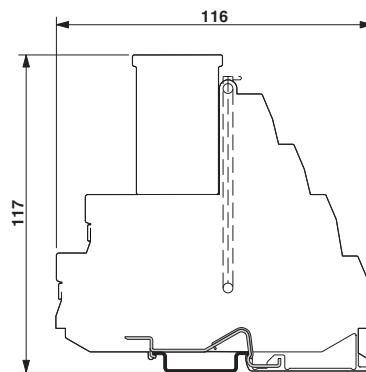
### Drawings

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

Connection diagram



Dimensional drawing



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[2754338](#)