

# IB ST 24 CNT - Function module

2750400

<https://www.phoenixcontact.com/us/products/2750400>

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INTERBUS-ST counter module, 4 counter inputs, 24 V or 5 V DC signal level, IP20 protection, consisting of: Terminal part with screw connection and module electronics

## Product description

### INTERBUS ST counter module

The IB ST 24 CNT module is designed for counting pulses, measuring frequencies and periods, and generating square-wave pulses.

The module has 4 channels which can be operated independently of one another. The counter then has a 16-bit resolution. Cascading is possible by simply connecting several counters in a row.

Each channel has a digital output that can be set according to the event. Simple applications can use a single device.

The module is available with either screw or spring-cage connection.

## Your advantages

- Connection of actuators in 2-conductor technology
- Connection of sensors in 2- or 3-conductor technology
- Short-circuit and overload-protected outputs

## Commercial data

Item number	2750400
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR03
Product key	DRI363
GTIN	4017918120122
Weight per piece (including packing)	737.4 g
Weight per piece (excluding packing)	660 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	118 mm
Height	117 mm
Depth	116 mm

### Interfaces

#### ST local bus

Connection method	ST local bus connector
Transmission speed	500 kbps

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Connection method	ST local bus connector
Transmission speed	500 kbps
Transmission physics	Copper

### Input data

#### Counter:

Input name	Counter input for 24 V signals
Connection method	Screw connection
Number of inputs	4
Operating mode	Event counting, frequency/time measurement
Input voltage	5 V DC 24 V DC
Input frequency	90 kHz (max. 300 kHz)
Input current	11 mA (typ., 24 V DC input) 8 mA (typ., 5 V DC input)
Resolution	16 bit (quantization)

### Output data

#### Digital:

Output name	Digital outputs
Number of outputs	4
Protective circuit	Polarity reversal protection, electronic short-circuit protection of the outputs

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2750400

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Output voltage	$U_S - 0.5 \text{ V DC} \leq U_{\text{Out LED}} \leq U_S$
Output current	500 mA (per output, up to 300 Hz)
	250 mA (per output, up to 10 kHz)

## Product properties

Product type	I/O component
Product family	Smart Terminal ST
Type	modular
	INTERBUS Smart Terminal
Operating mode	Process data multiplex operation with 1 parameter channel, 3 INTERBUS IN and 3 INTERBUS OUT words

## Electrical properties

### Electrical isolation/isolation of the voltage ranges

Test voltage: Bus/Outputs	500 V AC, 50 Hz, 1 min
Test voltage: Bus/Inputs	500 V AC, 50 Hz, 1 min
Test voltage: Bus/Ground conductor	500 V AC, 50 Hz, 1 min
Test voltage: I/O / Ground conductor	500 V AC, 50 Hz, 1 min

## Connection data

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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## Standards and regulations

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

Mounting type	DIN rail mounting
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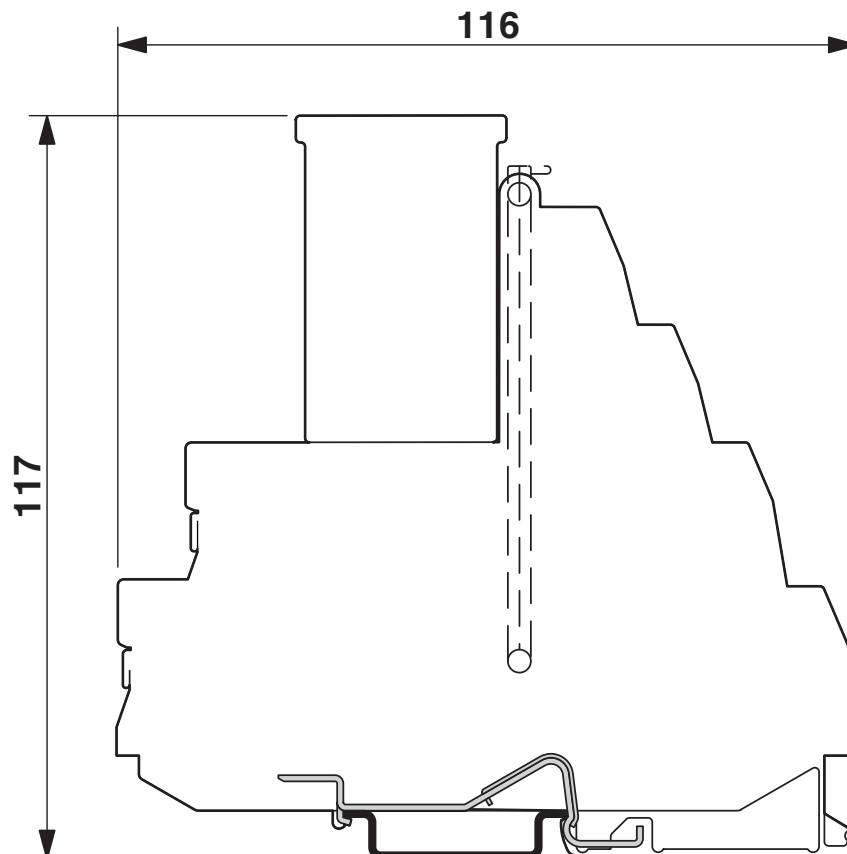
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## Drawings

Dimensional drawing

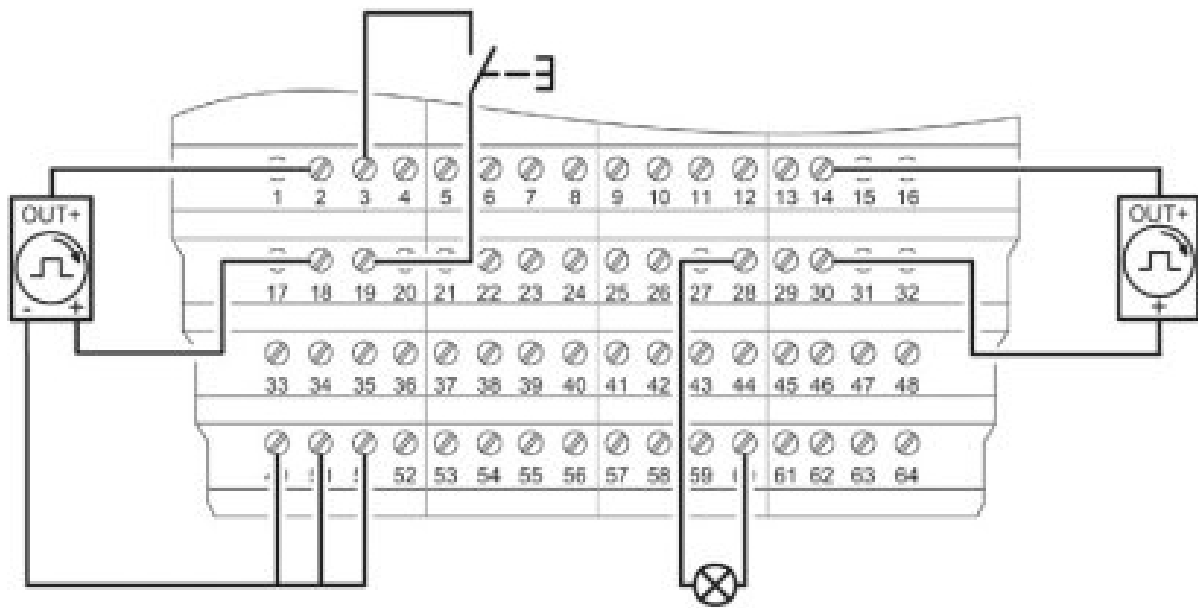


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Connection diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	32151602
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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