

## Special function module - IB ST 24 CNT - 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.

### Product Features

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

### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 120122
Weight per Piece (excluding packing)	737.4 GRM
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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#### Interfaces

Interface	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kBit/s

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## Technical data

### Interfaces

Transmission physics	Copper
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### Ambient conditions

Degree of protection	IP20
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### Power supply

Communications power $U_L$	9 V DC (UI, from the ST local bus)
Max. current consumption	220 mA (from the local bus)
Typical current consumption	200 mA (from the local bus)
	4 A (max., to $U_S$ )
I/O voltage	24 V DC ( $U_S$ )
Ripple	$\pm 1.2$ V 5 %
I/O voltage range	20 V ... 30 V

### Electrical isolation

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

### Counter input

Number of inputs	4
Operating mode	Event counting, frequency/time measurement
Input frequency	90 kHz (max. 300 kHz)
Input voltage	5 V DC
	24 V DC
Input current	11 mA (typ., 24 V DC input)
	8 mA (typ., 5 V DC input)

### Control input

Number of inputs	4
Connection method	2, 3-wire

### Outputs

Number of outputs	4
Connection method	2-wire
Output voltage	$U_S - 0.5$ V DC $U_{Out LED}$ $U_S$
Output current	500 mA (per output, up to 300 Hz)
	250 mA (per output, up to 10 kHz)
	500 mA (per sensor)

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## Technical data

### General

Weight	660 g
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Connection data	Screw connection 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> 24 12 8 mm

## Classifications

### eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250304
eCl@ss 5.0	27250304
eCl@ss 5.1	27242605
eCl@ss 6.0	27242605
eCl@ss 7.0	27242605
eCl@ss 8.0	27242605

### ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001601
ETIM 4.0	EC001601
ETIM 5.0	EC001601

### UNSPSC

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

## Approvals

### Approvals

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Approvals

GOST

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Ex Approvals

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## Approvals

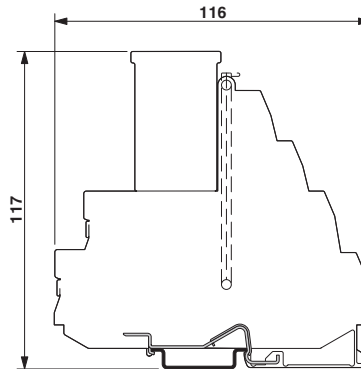
Approvals submitted

## Approval details



## Drawings

Dimensioned drawing



Connection diagram

