

IB ST ZF 24 CNT

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Order No.: 2750947

The illustration shows version IB ST 24 CNT



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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 spring-cage connection and module electronics

Commercial data

EAN	4017918139575
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.70 KG

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Product description

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.

Technical data

Interfaces

Interface	ST local bus
Type of connection	ST local bus connector
Transmission speed	500 kBit/s
Transmission physics	Copper

Power supply

Communications voltage 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	± 1.2 V 5 %
Peripherals 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 measuring, pulse generation
Input frequency	90 kHz (max. 300 kHz)
Input voltage	5 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	5 V DC ($U_S - 0.5$ 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)

General data

Weight	660 g
Degree of protection	IP20

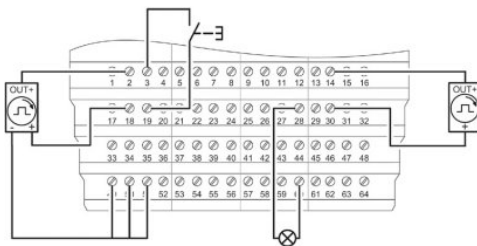
Class of protection	III, IEC 60536
Connection data	Spring-cage connection 0.2 mm ² 1.5 mm ² 0.2 mm ² 1.5 mm ² 24 16
Width	118 mm
Height	117 mm

Accessories

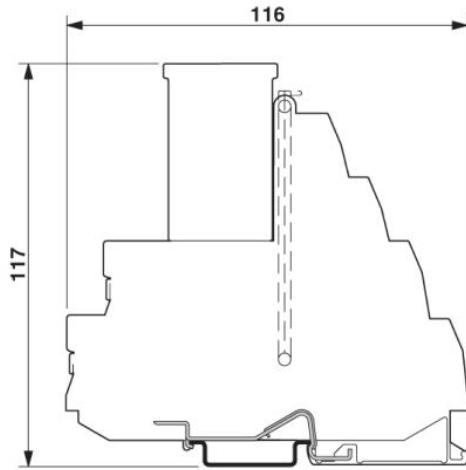
Item	Designation	Description
Bridges		
2836269	EB 84 IB ST BU	Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.
2836272	EB 84 IB ST RD	Insertion bridges, divisible, isolated comb spine, color red, 84-pos.
Cable/conductor		
2836492	IB ST LBC	Spare local bus cable, for INTERBUS-ST modules
Fuse		
2753465	IBS TR5 4AF	Replacement fuse, for INTERBUS-ST modules
Literature		
2721390	IB ST 24 CNT UM	User Manual, German, for INTERBUS ST counter modules
Replacement clamping part		
2725341	IB STTB ZF 24 CNT	Replacement clamping part for IB ST ZF 24 CNT
Replacement module electronics		
2751616	IB STME 24 CNT	Replacement module electronics for IB ST 24 CNT

Drawings

Connection diagram



Dimensioned drawing



FAQs

- **How high is the maximum input frequency per channel?**

If only one counting input is used, the maximum input frequency is 300 kHz. If all four inputs are used, the frequency drops to 80 kHz.

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