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Inline function terminal - IB IL CNT-XC-PAC - 2702134

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Inline counter terminal, version for extreme conditions, complete with accessories (connectors and marking fields), 1 counter input, 1 control input, 1 output, 24 V DC, 500 mA, 3-conductor connection technology

The figure shows the standard item

Product Description

The Inline IB IL CNT counter terminal registers and processes quick pulse trains from sensors. It has a counter input, a control input, and a switching output that can be parameterized by the module itself. This way, quick response times can be achieved independent of the bus and the control system.

The module can be operated in different operating modes:

- Event counting
- Time measurement and
- Pulse generation

The inputs can be used to connect initiators with 24 V DC supply and 5 V DC supply. The switching output supplies a maximum current of 500 mA. The Inline counter terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the ZB-FM-6... Zack strip for labeling the terminal points.

Why buy this product

- 24 V sensor supply including monitoring
- Gate input
- 16-bit counter value for time measurement
- Four operating modes: event counting, time or state-controlled frequency measurement, time measurement (period or pulse length), and pulse generator
- Processing of 5 V or 24 V signals
- Input frequency of up to 100 kHz
- 1 counter
- 24-bit counter value for event counting and frequency measurement
- Can be used under extreme ambient conditions
- Extended temperature range of -40°C ... +70°C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- Coated PCBs

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 981798

Technical data

Note

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	24.4 mm
Height	135 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C (Standard)
	-40 °C ... 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

Connection data

Designation	Inline connector
Connection method	Spring-cage connection
Conductor cross section solid min.	0.08 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.08 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Stripping length	8 mm

General

Net weight	130 g
Note on weight specifications	with connectors
Mounting type	DIN rail
Operating mode	Process data operation with 2 words
Diagnostics messages	Sensor supply short-circuit
	Sensor supply overload

Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s

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Technical data

Interfaces

Transmission physics	Copper
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Power supply for module electronics

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Communications power U_L	7.5 V (via voltage jumper)
Current consumption	typ. 40 mA (from the local bus)
Power consumption	max. 0.375 W (at U_L)
Module electronics and sensors	Power supply for sensors Auto restart after eliminating the short-circuit
Designation	Power supply for sensors
Supply voltage	24 V DC (generated from segment supply U_S)

Inline potentials

Communications power U_L	7.5 V DC (via voltage jumper)
Current consumption from U_L	typ. 40 mA
	max. 50 mA
Segment circuit supply U_S	24 V DC (nominal value)
Current consumption from U_S	max. 1 A
Power consumption	max. 0.375 W (at U_L)

Digital outputs

Output name	Switching output
Connection method	Spring-cage connection
	2-wire
Number of outputs	1
Protective circuit	Short-circuit protection Yes, short-circuit-proof (automatically switched on again)
Output voltage	24 V DC (Nominal voltage)
Output current	max. 0.5 A (Nominal current)
Nominal load, inductive	max. 12 VA (1.2 H; 48 Ω)
Nominal load, lamp	max. 12 W
Nominal load, ohmic	max. 12 W (48 Ω)

Standards and Regulations

Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min.
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min.
	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min.
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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Classifications

eCl@ss

eCl@ss 5.1	27242605
eCl@ss 6.0	27242605
eCl@ss 8.0	27242605

ETIM

ETIM 5.0	EC001601
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Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

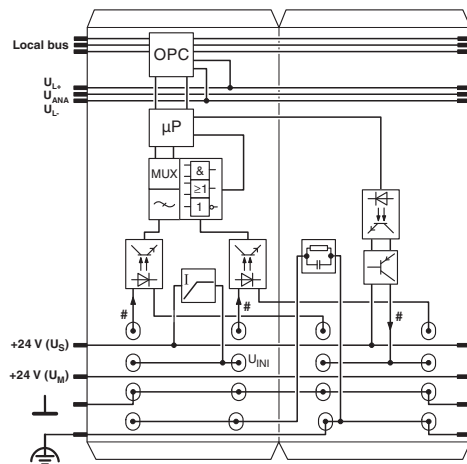
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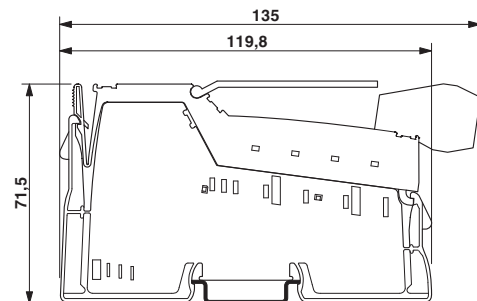
Drawings

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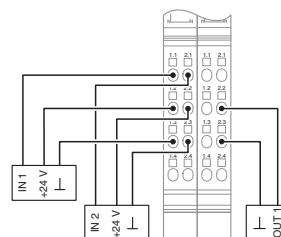
Block diagram



Dimensional drawing



Connection diagram



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Product	Code	Reference	Product link
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