

Inline function terminal - IB IL CNT-PAC - 2861852

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Inline counter terminal block, complete with accessories (connectors and labeling fields), 1 counter input, 1 control input, 1 output, 24 V DC, 500 mA, 3-wire connection method

Product Description

The terminal is designed for use within an Inline station.

The counter terminal acquires and processes fast pulse sequences from sensors. It has a counter input (source), a control input (gate), and a switching output that can be freely parameterized. The switching output is set independently of the terminal. Fast response times can therefore be achieved, which are independent of both the bus and controller.

The terminal can be operated in four different operating modes: frequency measurement, event counting, time measurement, and pulse generation (pulse generator).

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

Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4017918894559

Technical data

Note

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

Dimensions

Width	24.4 mm
Height	135 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °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

General

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

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

Inline potentials

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

Counter inputs

Input name	Counter input for 24 V signals
Number of inputs	1 (only one counter input can be used, either for 24 V or for 5 V signals)
Connection method	Spring-cage connection
Operating mode	Event counting, frequency/time measurement
Input voltage	24 V DC (Nominal voltage)

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Technical data

Counter inputs

	30 V DC (maximum)
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Input frequency	max. 100 kHz
Input current	typ. 5 mA
Input name	Counter input for 5 V signals
Number of inputs	1 (only one counter input can be used, either for 24 V or for 5 V signals)
Connection method	Spring-cage connection
Connection technology	2-wire (shielded), external 5 V supply
Operating mode	Event counting, frequency/time measurement
Input voltage	5 V DC (Nominal voltage)
	8 V DC (maximum)
Input voltage range "0" signal	0 V ... 1.5 V
Input voltage range "1" signal	3.5 V ... 8 V
Input frequency	max. 100 kHz
Input current	typ. 5 mA
Input resistance	approx. 1.7 kΩ

Digital outputs

Output name	Switching output
Connection method	Spring-cage connection
Connection technology	2-wire
Number of outputs	1
Type of protection	Short-circuit protection
	Overload protection
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

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

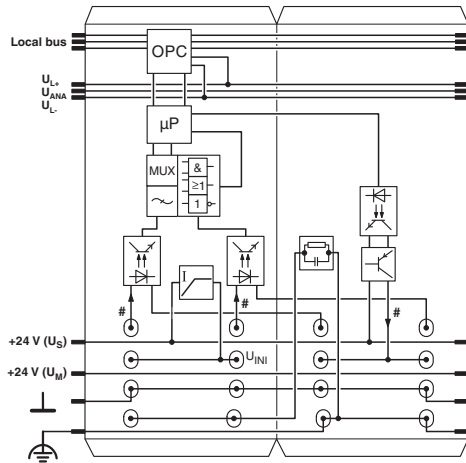
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

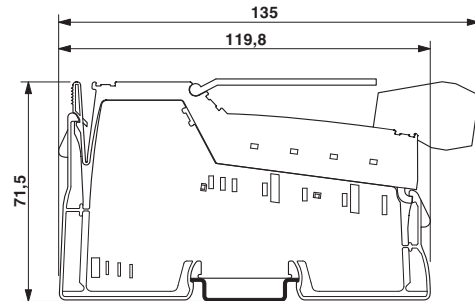
Drawings

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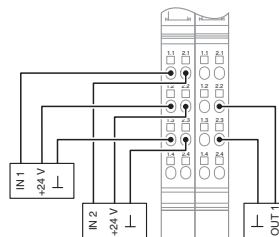
Block diagram



Dimensional drawing



Connection diagram



Approvals

Approvals

Approvals

UL Recognized / LR / ABS / RINA / BSH / BV / BSH / EAC / DNV GL

Ex Approvals





Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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LR		http://www.lr.org/en	08/20033
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Approvals

ABS		http://www.eagle.org/eagleExternalPortalWEB/	17-HG1621871-PDA
RINA		http://www.rina.org/en	ELE183315XG
BSH		http://www.bsh.de/de/index.jsp	Anwenderhinweis
BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	20989/B2_BV
BSH		http://www.bsh.de/de/index.jsp	658
EAC			EAC-Zulassung
DNV GL		http://exchange.dnv.com/tari/	A-13984

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