Inline function terminal - IB IL INC-IN-PAC - 2861755

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Inline measurement terminal for position encoder, complete with accessories (connector and labeling field), 1 input for incremental encoder with rectangular signal (symmetrical or asymmetrical), 3 digital inputs 24 V DC, 3-conductor connection system

Product Description

The terminal is designed for use within an Inline station.

Both symmetrical (RS-422) and asymmetrical (5 V DC to 24 V DC) encoders with rectangular signals can be connected to the terminal block. Rotary transducers or length measurement systems can be read in with or without a Z pulse.
In order to increase the operational safety, all encoder inputs are monitored for cable breaks. Using a special operating mode, the terminal supports distance coded incremental encoders, with which the homing run can be reduced to very short distances.
In addition to the input for the encoder signals, the terminal also has three digital 24 V DC inputs, one input for the home position switch, and two inputs for limit position switches. Thus 2 or 3-conductor sensors can be connected. Input I3 can also be used as an "open collector" output.

Your advantages

- ☑ Supports incremental encoders with symmetrical signals in accordance with EIA standard RS-422 (line driver)
- ☑ Supports incremental encoder with asymmetrical signals (push-pull)
- ☑ Supplies encoder with 5 V or 24 V voltage
- ☑ Three digital inputs for connecting two limit switches or a home position switch
- ☑ Maximum input frequency of 300 kHz
- ☑ 25-bit actual position value
- ☑ Precise evaluation via 1x, 2x, or 4x sampling
- ☑ Direction of rotation indicator via LED

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918899912

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	140.5 mm
Depth	71.5 mm

Interfaces

Interface	Inline local bus
Connection method	Inline data jumper

Power supply

Typical current consumption	70 mA
I/O voltage	24 V DC
Encoder supply voltage	5 V DC
	24 V DC
Encoder supply current	max. 250 mA
Drawing encoder supply voltage	Main circuit U_M

Electrical isolation

Test section	7.5 V supply (bus logics), I/O 500 V AC 50 Hz 1 min.
	7.5 V supply (bus logic)/functional ground 500 V AC 50 Hz 1 min.
	24 V supply (I/O)/functional ground 500 V AC 50 Hz 1 min.

Incremental encoder input

Number of inputs	1
Input frequency (24 V)	0 Hz ... 300 kHz
Input frequency (5 V)	0 kHz ... 300 kHz
Encoder signals	Symmetrical and asymmetrical encoders

Inputs

Number of inputs	3
Connection technology	3-wire

General

Weight	143 g

Inline potentials

Designation	Communications power (U_L)
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	max. 70 mA
Designation	Main circuit supply (U_M)
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 340 mA
	max. 1 A

Environmental Product Compliance

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Technical data

Environmental Product Compliance

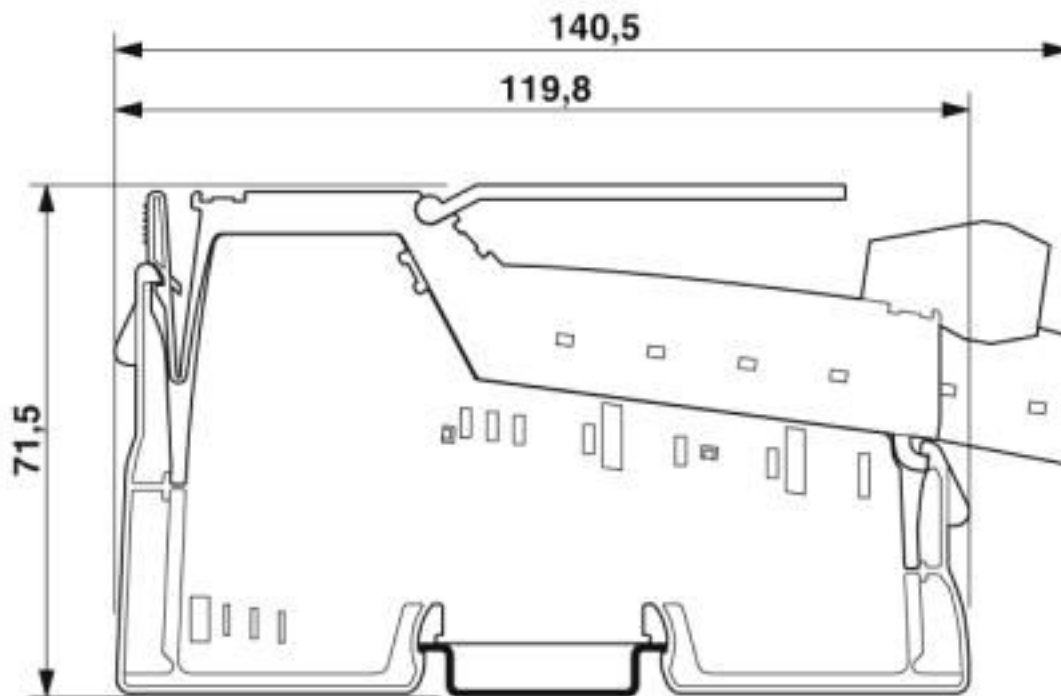| REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Connection diagram
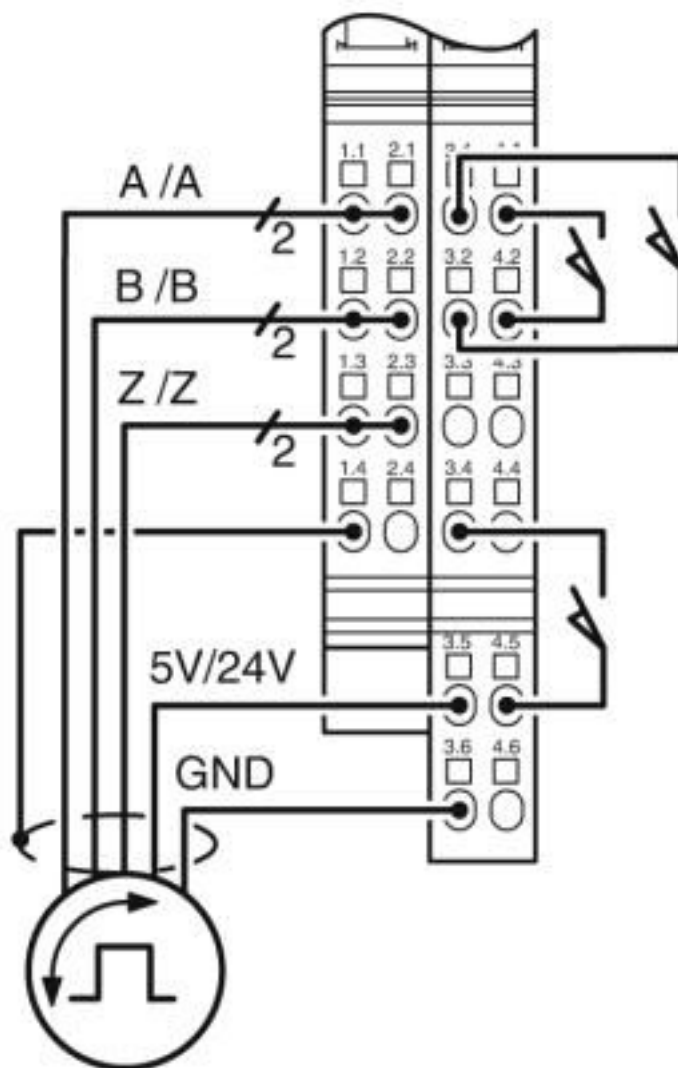
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Dimensional drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27242605
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242605
eCl@ss 8.0	27242605
eCl@ss 9.0	27242605

ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001601
ETIM 4.0	EC001601
ETIM 5.0	EC001601
ETIM 6.0	EC001601
ETIM 7.0	EC001601

UNSPSC

UNSPSC 6.01	43172015

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Classifications

UNSPSC

UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC		EAC-Zulassung

cULus Listed		

Accessories

Accessories

Labeling panel

Inline function terminal - IB IL INC-IN-PAC - 2861755

Accessories

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm

Plug

Inline connector - IB IL SCN-12-ICP - 2727611

Connector, color coded, for digital 4, or 16-channel Inline input terminals

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Inline shield connector - IB IL SCN-6 SHIELD - 2726353

Inline shield connector

Terminal marking

Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

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