

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 |
| Weight per Piece (excluding packing) | 193.200 g |
| Custom tariff number | 85389091 |

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

| | |
|-------------------|---------|
| Country of origin | Germany |
|-------------------|---------|

Technical data

Note

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

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 logics) / functional earth ground 500 V AC 50 Hz 1 min. |
| | 24 V supply (I/O) / functional earth 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) |
|-------------|--------------------------------|

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

Technical data

Inline potentials

| | |
|----------------------|--|
| 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 |

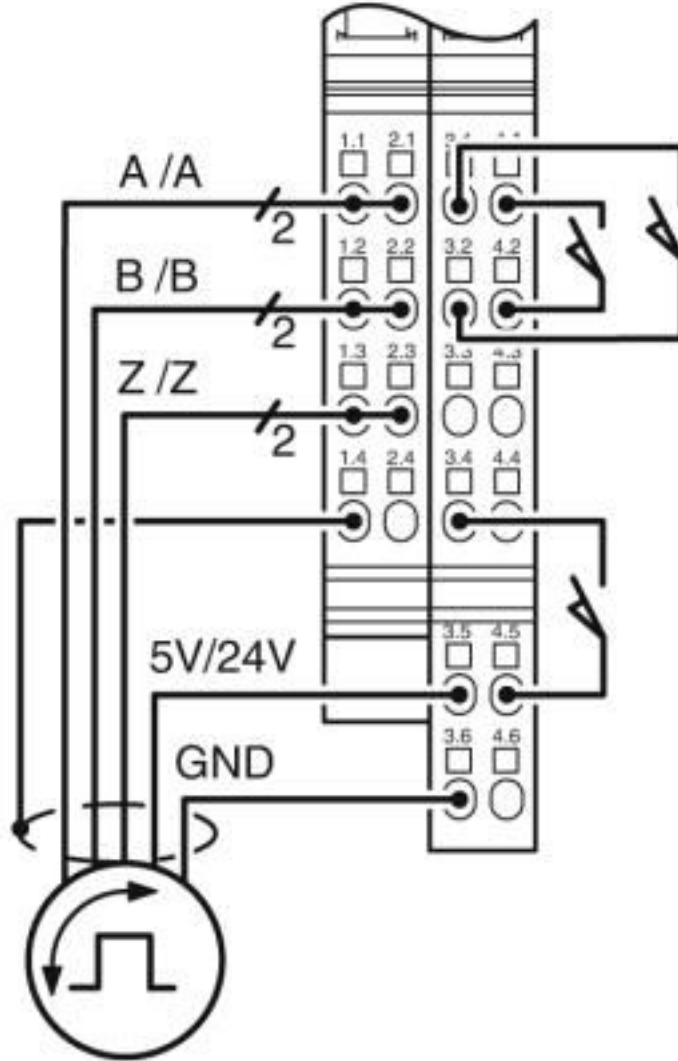
Environmental Product Compliance

| | |
|------------|---|
| 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

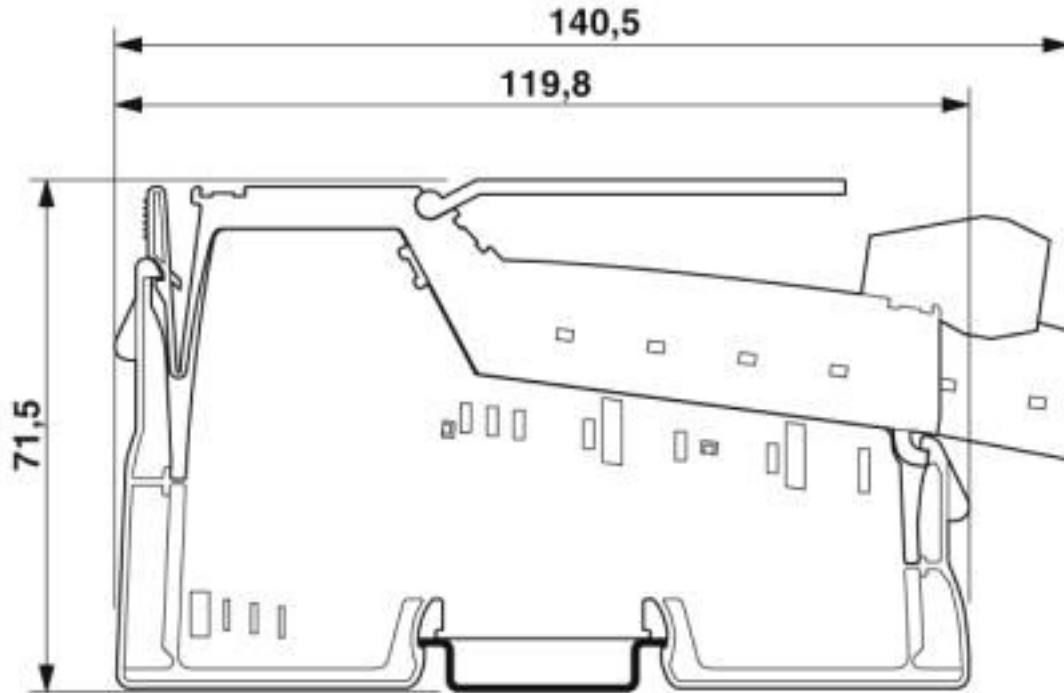
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Connection diagram



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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 |

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Classifications

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| 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 / UL Listed / cUL Listed / EAC

Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed

Approval details

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

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| cUL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
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| EAC | | EAC-Zulassung |
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| UL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
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|------------|--|---|---------------|

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

Accessories

Accessories

Labeling panel

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

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



Inline shield connector

Terminal marking

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Accessories

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