

## Inline function terminal - IB IL INC - 2836324

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Inline positioning terminal block, without accessories, 1 incremental encoder input, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 500 mA, 3-wire connection method

### Product Description

The Inline absolute and incremental encoder terminals provide a simple solution for the positioning of drives.

The IB IL SSI terminal can be used for the connection of absolute encoders (single-turn or multi-turn). The IB IL INC terminal can be used for the evaluation of incremental encoders (symmetrical or asymmetrical encoders). Both terminals supply 5 V DC and 24 V DC for the connection of encoders and have four 24 V DC digital inputs and four 24 V DC digital outputs, 500 mA.

The digital inputs connect limit switches and reference mark switches; the digital outputs set the transversing direction and the transversing rate using control data.

The terminals are configured and parameterized via INTERBUS. The desired position values can then be set via the control program. If the application allows it, position values can also be saved individually. The module accesses these values independently after a request. The module constantly monitors the homing and sends status messages to the control system. When an error occurs, the drive is immediately stopped.

The Inline positioning 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.

### Product Features

- Open circuit detection
- 5 V and 24 V sensor/encoder supply
- 3 digital inputs to connect two limit switches and one home position switch
- 25-bit actual position value
- Single, double or quadruple evaluation
- Symmetrical and asymmetrical incremental encoders with or without Z trace can be connected
- Maximum input frequency of 300 kHz
- Direction of rotation indicator via LED
- 5 homing functions



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	160.8 g
Custom tariff number	85389091
Country of origin	Germany

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## Technical data

### Dimensions

Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm

### Interfaces

Interface	Inline local bus
Connection method	Inline data jumper

### Power supply

I/O voltage	24 V DC (via voltage jumper)
I/O voltage range	19.2 V DC ... 30 V DC
Encoder supply voltage	5 V DC (sym. / asym.)
	24 V DC (Only asymmetrical encoders)
Encoder supply current	500 mA
	500 mA
Drawing encoder supply voltage	Main circuit $U_M$

### Electrical isolation

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.
	7.5 V supply (bus logics) / functional earth ground of encoder supply 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional earth ground of encoder supply 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional earth ground of encoder supply 500 V AC 50 Hz 1 min.
	Functional earth ground of encoder supply / Functional earth ground 500 V AC 50 Hz 1 min.

### Incremental encoder input

Number of inputs	1
Input frequency (24 V)	0 Hz ... 50 kHz (asymmetrical)
Input frequency (5 V)	0 Hz ... 500 kHz (symmetrical)
Encoder signals	Symmetrical and asymmetrical encoders

### Inputs

Number of inputs	4
Connection method	3-conductor

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## Technical data

### Inputs

Input voltage	24 V DC
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### Outputs

Number of outputs	4
Connection method	3-conductor (shielded)
Output voltage	24 V DC

### General

Weight	130 g
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### Inline potentials

Communications power $U_L$	7.5 V DC (via voltage jumper)
Current consumption from $U_L$	max. 110 mA
Main circuit supply $U_M$	24 V DC (via voltage jumper)
Current consumption from $U_M$	1 A (via voltage jumper)
Segment circuit supply $U_S$	24 V DC (via voltage jumper)
Current consumption from $U_S$	2 A (maximum)

### 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.
	7.5 V supply (bus logics) / functional earth ground of encoder supply 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional earth ground of encoder supply 500 V AC 50 Hz 1 min.
	24 V supply (I/O) / functional earth ground of encoder supply 500 V AC 50 Hz 1 min.
	Functional earth ground of encoder supply / Functional earth ground 500 V AC 50 Hz 1 min.
Connection in acc. with standard	CUL

### Classifications

#### eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250304
eCl@ss 5.0	27250304
eCl@ss 5.1	27242605

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## Classifications

### eCl@ss

eCl@ss 6.0	27242605
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### ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001601
ETIM 4.0	EC001601
ETIM 5.0	EC001601

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Accessories

### Accessories

#### Connector set

Connector set - IB IL SSI/INC-PLSET - 2732473



Connector set

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### Labeling panel

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



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### Accessories

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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### Terminal marking

Insert strip - ESL 62X46 - 0809502

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm



Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm



User manual - IB IL INC UM - 2698478

User Manual, German, for Inline positioning terminals



User manual - IB IL INC UM E - 2698481

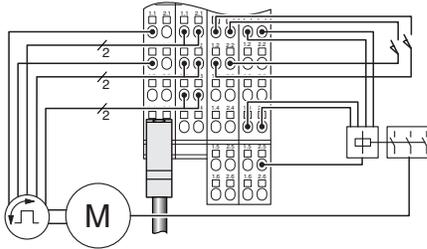
User Manual, English, for Inline positioning terminals



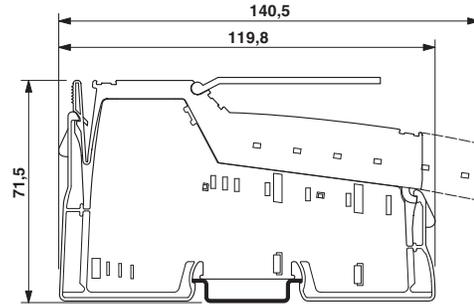
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## Drawings

Connection diagram

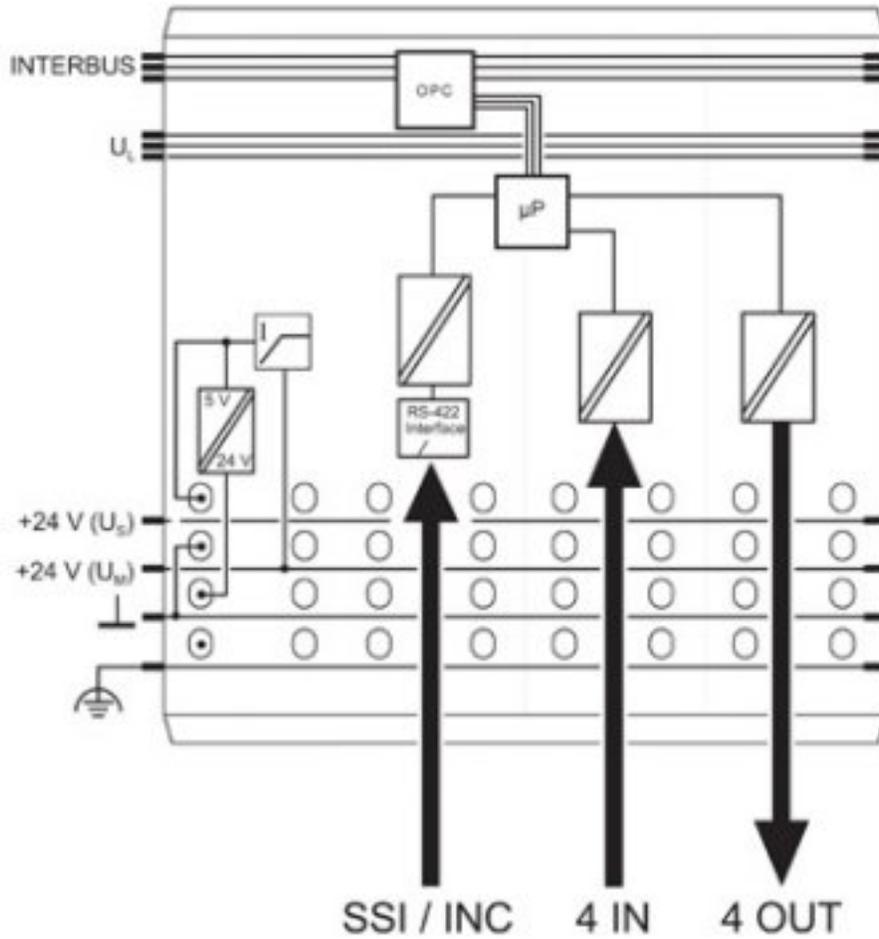


Dimensional drawing



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Block diagram



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