

## Inline terminal - IB IL 24 DI 2-PAC - 2861221

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Inline digital input terminal block, complete with accessories (connector and labeling field), 2 inputs, 24 V DC, 4-wire connection method

### Product Description

Digital Inline input terminals are designed for the connection of digital signals as are emitted from control switches, limit switches or proximity switches. All the typical applications are covered by the standard automation terminals. The I/O equipment is connected using the Inline plug, providing you with multiple conductor connection technology. The Inline terminals can be labeled using pull-out labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the proven ZBFM-6... Zack marker strip for labeling the terminal points.

### Product Features

- Connections for 2 digital sensors
- Connection of sensors in 2, 3, and 4-wire technology
- Maximum permissible load current per sensor: 250 mA
- Diagnostic and status indicators



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	76.2 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

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

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

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## Technical data

### Dimensions

Note on dimensions	Housing dimensions
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### 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

Net weight	53 g
Note on weight specifications	with connector
Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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

### Interfaces

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

### 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)
Supply current	35 mA
Communications power $U_L$	7.5 V (via voltage jumper)
Current consumption	max. 35 mA (from the local bus)

### Inline potentials

Communications power $U_L$	7.5 V DC (via voltage jumper)
Current consumption from $U_L$	max. 35 mA
Main circuit supply $U_M$	24 V DC

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### Technical data

#### Inline potentials

Current consumption from $U_M$	max. 8 A DC
Segment supply voltage $U_S$	24 V DC (nominal value)
Current consumption from $U_S$	max. 0.5 A

#### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	2, 3, 4-wire
Number of inputs	2 (EN 61131-2 type 1)
Typical response time	< 1 ms
Protective circuit	Short-circuit and overload protection
Input voltage	24 V DC (via voltage jumper)
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC

### Classifications

#### eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604

#### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

#### UNSPSC

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

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### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / cUL Recognized / BV / DNV / ABS / RINA / GL-SW / BSH / UL Recognized / LR / GL / EAC / EAC / cULus Recognized / GL

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#### Ex Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed

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#### Approvals submitted

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#### Approval details

UL Recognized 

cUL Recognized 

LR

GL

mm <sup>2</sup> /AWG/kcmil	6
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BV

DNV

ABS

RINA

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### Approvals

GL-SW	
mm <sup>2</sup> /AWG/kcmil	6

BSH

cUL Recognized 

BV

DNV

ABS

RINA

GL-SW	
mm <sup>2</sup> /AWG/kcmil	6

BSH

UL Recognized 

LR

GL	
mm <sup>2</sup> /AWG/kcmil	6

EAC

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### Approvals

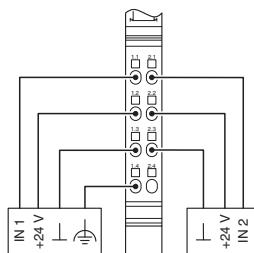
EAC

cULus Recognized 

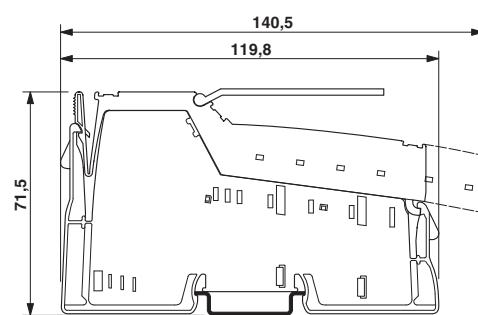
GL

### Drawings

Connection diagram



Dimensional drawing



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Block diagram

