

Inline terminal - IB IL 24 DI 8-2MBD - 2819040

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Inline digital input terminal block, without accessories, 8 inputs, 24 V DC, transmission speed 2 Mbaud, 4-wire connection method

The illustration shows the version IB IL 24 DI 8

Product Description

The digital Inline input terminals are designed for the connection of digital signals as are supplied 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 by a simple or an extended Inline connector, depending on the number of channels. The multi-wire connection method is available in both cases.

The Inline 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 proven ZBFM-6... Zack strip for labeling the terminal points.

Product Features

- 8 digital inputs
- Connection of sensors in 2, 3, and 4-wire technology
- Maximum permissible load current per sensor: 250 mA
- Maximum permissible load current from the terminal: 2 A
- Diagnostic and status indicators



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	138.8 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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Technical data

Dimensions

Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

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

Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	2 MBit/s

Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	2, 3, 4-wire
Number of inputs	8 (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
Nominal input current at U_{IN}	5 mA

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	85 mA
Communications power U_L	7.5 V (via voltage jumper)
Current consumption	max. 85 mA (from the local bus)
Power consumption	max. 0.638 W

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Technical data

General

Mounting type	DIN rail
Net weight	118 g
Note on weight specifications	Without plug

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	max. 85 mA
Current consumption from U_M	0 A DC
Segment circuit supply U_S	24 V DC (nominal value)
Current consumption from U_S	max. 2 A
Current consumption from U_{ANA}	0 A DC

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.
	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min.
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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
eCl@ss 9.0	27242604

ETIM

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

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Classifications

UNSPSC

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

Accessories

Accessories

Labeling panel

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Plug

Inline connector - IB IL SCN-8 - 2726337

Connector, for digital 1, 2 or 8-channel Inline terminals



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Accessories

Inline connector - IB IL SCN-8-CP - 2727608



Inline connector, colored

Terminal marking

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

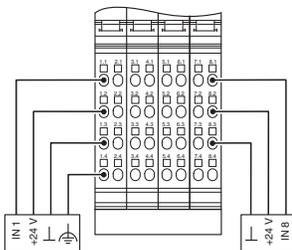
Insert strip - ESL 62X46 - 0809502



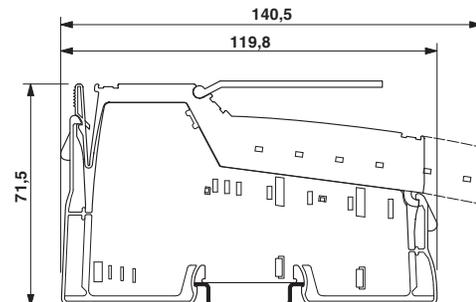
Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm

Drawings

Connection diagram



Dimensional drawing



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