

Inline function terminal - IB IL 24 IOL 4 DI 12-PAC - 2692717

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Inline IO-Link master, complete with accessories (connector and labeling field), 4 IO-Link ports, 12 digital inputs, 24 V DC, 2, 3-wire connection method

Product Description

The device serves to connect IO-Link devices.

Product Features

- Optional use of the IO-Link ports in SIO mode as standard inputs or standard outputs
- 4 type A IO-Link ports
- Connections for 12 digital sensors



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	240.0 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	48.8 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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Technical data

Ambient conditions

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

Mounting type	DIN rail
Net weight	200 g
Note on weight specifications	with connectors
Diagnostics messages	Short-circuit of a digital output in the SIO mode Yes
	Sensor supply short-circuit No
	Sensor supply overload No

Interfaces

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

Inline potentials

Communications power U_L	7.5 V (via voltage jumper)
Current consumption from U_L	max. 100 mA
Segment circuit supply U_S	24 V DC (nominal value)
Current consumption from U_S	max. 2 A (with load and port supply)
	max. 52 mA (without load)

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	Inline connector
	3-conductor
Number of inputs	12
Input voltage range "0" signal	< 5 V (typ.)
Input voltage range "1" signal	> 11 V (typ.)
Input voltage range	0 V DC ... 30 V DC
Nominal input current at U_{IN}	2.2 mA
Delay at signal change from 0 to 1	3 ms
Delay at signal change from 1 to 0	3 ms

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Digital inputs

Input name	Digital inputs
Connection method	Inline connector
Nominal input current	5.5 mA (at 24 V DC)
Signal delay	3 ms
	3 ms
Permissible cable length	20 m

Digital outputs

Number of outputs	max. 4
Nominal current per channel	max. 200 mA ($I_{Nominal}$)
Maximum total current consumption	max. 800 mA
Limitation of the voltage induced on circuit interruption	approx. -1 V
Protective circuit	Short-circuit protection Integrated per channel
Behavior with overload	Output may be damaged
Behavior in case of short-circuit	Electronic short-circuit protection

Standards and Regulations

Test section	24 V supply U_S (IO-Link and digital inputs) / functional earth ground 500 V DC 50 Hz 1 min.
	24 V supply U_S (IO-Link and digital inputs) / 7.5 V supply (bus logic) 500 V DC 50 Hz 1 min.
	7.5 V supply (bus logics) / functional earth ground 500 V DC 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

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Classifications

ETIM

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

Accessories

Accessories

Connector set

Connector set - IB IL DI/DO 8-PLSET/CP - 2860963



Connector set, for IB IL DI/DO 8, copper, with color print.

I/O component

Inline terminal - IB IL PD 24V-PAC - 2862987



Inline terminal for power distribution (24 V), complete with accessories, (connector and labeling field) 24 V supply voltage is fed out from the segment circuit (US)

Inline terminal - IB IL PD GND-PAC - 2862990



Inline terminal for power distribution (GND), complete with accessories, (connector and labeling field) connections for GND

Labeling panel

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Accessories

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



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

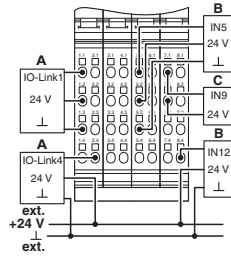
Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm



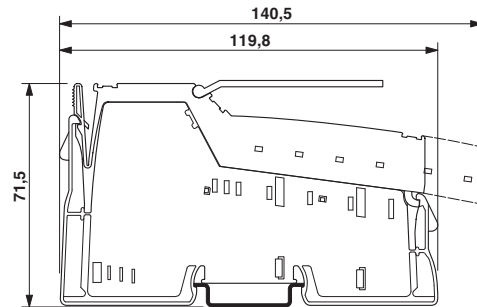
Drawings

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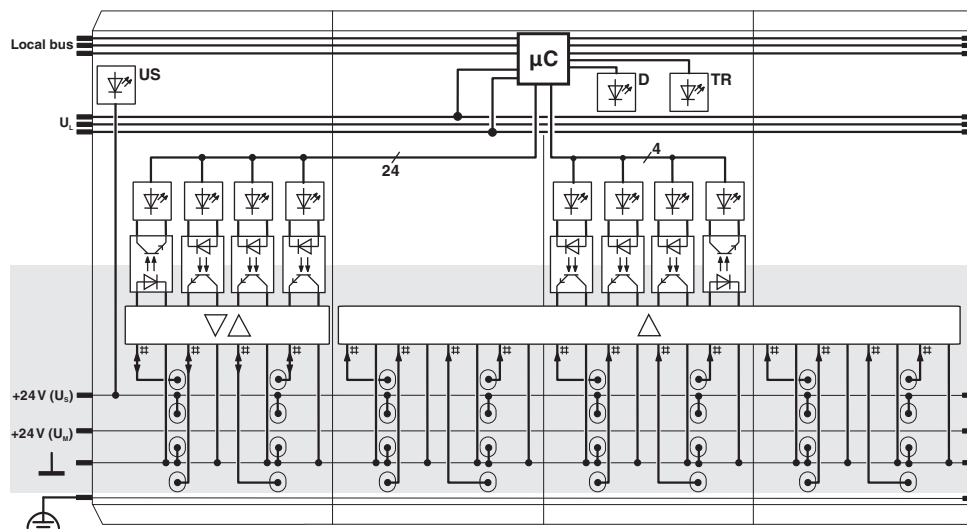
Connection diagram



Dimensional drawing



Block diagram



Internal wiring of the terminal points

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