

## 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 GRM
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

Weight	200 g
Note on weight specifications	with connectors
Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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
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

### Power supply for module electronics

Connection method	via potential routing
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### Inline potentials

Communications power $U_L$	7.5 V (via voltage jumper)
Current consumption from $U_L$	max. 100 mA
Segment supply voltage $U_S$	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
Connection method	Inline connector
	2, 3-wire

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#### Digital inputs

Number of inputs	12 (EN 61131-2 type 1)
Input voltage range "0" signal	< 5 V (typ.)
Input voltage range "1" signal	> 11 V (typ.)
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

### 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	27242608

#### ETIM

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

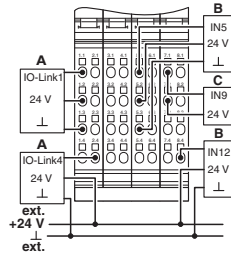
#### UNSPSC

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

### Drawings

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Connection diagram



Dimensioned drawing

