

## Inline terminal - IB IL 24 DI8/HD-PAC - 2700173

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Inline digital input terminal, complete with accessories (connector plug and labeling field), 8 inputs, 24 V DC, 1-wire connection technology

### Product Features

- 8 digital inputs
- Connection of sensors in single-wire technology
- Diagnostic and status indicators



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	80.0 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	12.2 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)

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### Technical data

#### Ambient conditions

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	60 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)
Power loss	max. 0.72 W
Communications power $U_L$	7.5 V (via voltage jumper)
Current consumption	max. 30 mA (from the local bus)
Power consumption	max. 0.25 W (at $U_L$ )

#### Inline potentials

Communications power $U_L$	7.5 V DC
Current consumption from $U_L$	max. 30 mA DC
Segment supply voltage $U_S$	24 V DC (nominal value)
Current consumption from $U_S$	max. 5.5 mA DC

#### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection

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### Technical data

#### Digital inputs

	1-wire
Number of inputs	8 (EN 61131-2 types 1 and 3)
Typical response time	1 ms
Input voltage	24 V DC (via voltage jumper)
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC
Nominal input current at $U_{IN}$	typ. 2.4 mA
Typical input current per channel	2.4 mA
Delay at signal change from 0 to 1	1 ms
Delay at signal change from 1 to 0	1 ms

### Classifications

#### eCI@ss

eCI@ss 4.0	27240404
eCI@ss 4.1	27240404
eCI@ss 5.0	27242204
eCI@ss 5.1	27242604
eCI@ss 6.0	27242604
eCI@ss 7.0	27242604
eCI@ss 8.0	27242604

#### ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

#### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	39121311
UNSPSC 12.01	39121311
UNSPSC 13.2	39121311

### Approvals

#### Approvals

# Inline terminal - IB IL 24 DI8/HD-PAC - 2700173

## Approvals

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### Approvals

UL Listed / cUL Listed / LR / GL / DNV / ABS / RINA / GL-SW / BSH / BV / cUL Listed / GL / cULus Listed / cULus Listed / cULus Listed / null / null / null / null

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### Ex Approvals

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

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### Approvals submitted

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## Approval details

UL Listed 

cUL Listed 

LR

GL

DNV

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RINA

GL-SW

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## Approvals

cUL Listed

GL

cULus Listed

cULus Listed

cULus Listed

## Accessories

### Accessories

#### Front adapter

Front adapters - FLKM 14-PA-INLINE/DIO8 - 2900889



VARIOFACE front adapter for Inline HD modules, for transferring 8 digital signals.

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### Accessories

#### 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)

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##### Inline terminal - IB IL PD GND-PAC - 2862990



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

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### Labeling panel

##### Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



### Plug

##### Inline connector - IB IL SCN-8 - 2726337



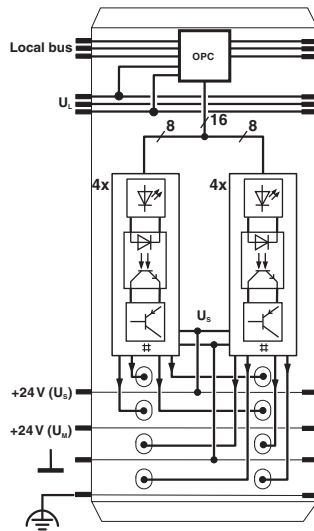
Connector, for digital 1, 2 or 8-channel Inline terminals

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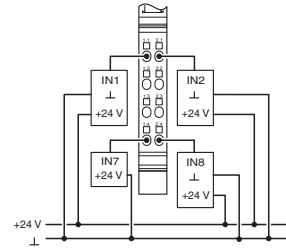
### Drawings

# Inline terminal - IB IL 24 DI8/HD-PAC - 2700173

Block diagram



Connection diagram



## Internal wiring of the terminal points

Dimensioned drawing

