

## Inline terminal - IB IL 24 DI 32/HD-2MBD-PAC - 2692885

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Inline digital input terminal, complete with accessories (connector and labeling field), 32 inputs, 24 V DC, transmission speed 2 Mbaud, single-wire connection method

The illustration shows the product version IB IL 24 DI 32/HD-PAC

### Product description


The terminal is designed for use within an Inline station. It is used to acquire digital input signals.

### Why buy this product

- 32 digital inputs
- Connection of sensors in single-wire technology
- Diagnostic and status indicators
- Approved for use in potentially explosive areas (refer to data sheet)



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 437455
Weight per Piece (excluding packing)	211.3 g
Custom tariff number	85389091
Country of origin	Germany
Note	Made to Order (non-returnable)

### 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

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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	211.3 g
Note on weight specifications	with connectors
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
Diagnostics messages	No None

### Interfaces

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

### Power supply for module electronics

Connection method	via potential routing
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Ripple	5%
Supply current	max. 90 mA
Derating	No derating
Communications power $U_L$	7.5 V (via voltage jumper)
Current consumption	max. 90 mA (from the local bus)
Power consumption	max. 0.675 W (at $U_L$ )

### Inline potentials

Communications power $U_L$	7.5 V DC
Current consumption from $U_L$	max. 90 mA

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### Technical data

#### Inline potentials

Main circuit supply $U_M$	24 V DC
Current consumption from $U_M$	max. 8 A DC
Segment supply voltage $U_S$	24 V DC
Current consumption from $U_S$	0 A DC

#### Digital inputs

Input name	Digital inputs
Connection method	Spring-cage connection
	1-wire
Number of inputs	32 (EN 61131-2 type 1)
Typical response time	2 ms
Protective circuit	Short-circuit and overload protection
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 $U_{IN}$	typ. 2.8 mA
Delay at signal change from 0 to 1	2 ms
Delay at signal change from 1 to 0	4 ms

### Classifications

#### eCl@ss

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

#### ETIM

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

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## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals

UL Listed / cUL Listed / cULus Listed


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#### Approvals submitted

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## Approval details

UL Recognized 

cUL Recognized 

cUL Recognized 

cULus Recognized 

## Accessories

### Accessories

#### Connector set

Connector set - IB IL DI/DO 8-PLSET - 2860950



Connector set

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### Front adapter

## Inline terminal - IB IL 24 DI 32/HD-2MBD-PAC - 2692885

### Accessories

Front adapters - FLKM 14-PA-INLINE/32 - 2302777



VARIOFACE front adapter for Inline modules, for transferring 32 (4 x 8) digital signals.

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### Labeling panel

Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



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Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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### 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



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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

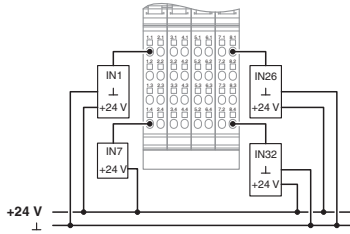


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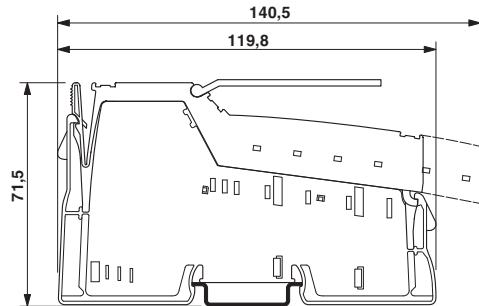
### Drawings

# Inline terminal - IB IL 24 DI 32/HD-2MBD-PAC - 2692885

Connection diagram



Dimensioned drawing



Block diagram

