

Inline terminal - IB IL 24 DI 32/HD-NPN-PAC - 2878243

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Inline digital input terminal , complete with accessories (plug and labeling field), 32 inputs, 24 V DC, npn-wired, 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, NPN-wired
- 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 048507
Weight per Piece (excluding packing)	191.31 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
Note on dimensions	Housing dimensions

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Technical data

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

Weight	125 g
Note on weight specifications	Without plug
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
Name	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/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)

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	max. 90 mA
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 (nominal value)

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Technical data

Inline potentials

Current consumption from U_s	0 A DC
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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	< 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
Typical input current per channel	2.8 mA

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

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

Approvals

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Approvals

Approvals


UL Recognized / cUL Recognized / LR / DNV / GL / GL-SW / cULus Recognized / GL


Ex Approvals

ATEX

Approvals submitted

Approval details

UL Recognized 


cUL Recognized 

LR

DNV

GL

GL-SW

cULus Recognized 

GL

Accessories

Accessories

Connector set

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Accessories

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



Connector set

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



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

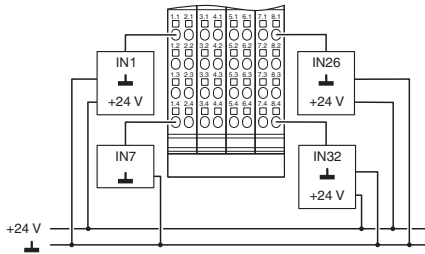
Insert strip, Sheet, white, Unlabeled, Can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm



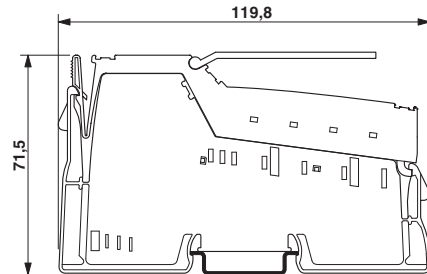
Drawings

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Connection diagram



Dimensioned drawing



Block diagram

