

Inline terminal - IB IL 24 DI 32/HD-PAC - 2862835

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

Product description

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

Product Features

- ✓ 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
Weight per Piece (excluding packing)	218.0 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
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	185 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	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
Power loss	max. 2.16 W
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

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Technical data

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)
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	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
Nominal input current at U_{IN}	typ. 2.8 mA
Typical input current per channel	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	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

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Classifications

UNSPSC

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

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / LR / GL / BV / DNV / ABS / GL-SW / BSH / UL Recognized / cUL Recognized / LR / GL / BV / DNV / ABS / GL-SW / BSH / cULus Recognized / GL

Ex Approvals

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

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 
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LR

GL

BV

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Approvals

DNV
ABS
GL-SW
BSH
UL Recognized 
cUL Recognized 
LR
GL
BV
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Accessories

Accessories

Connector set

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



Connector set

Front adapter

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



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

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

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Accessories

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

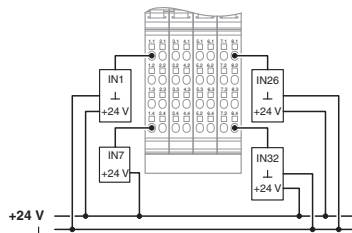
Insert strip - ESL 62X46 - 0809502



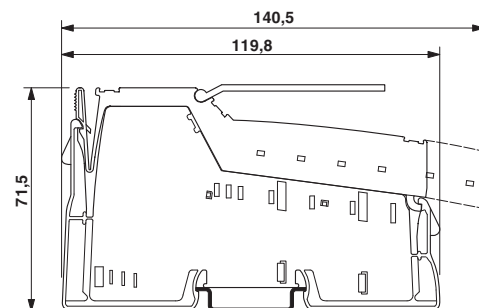
Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm

Drawings

Connection diagram



Dimensioned drawing



Block diagram

