

Inline terminal - IB IL 24 DO 32/HD-NPN-PAC - 2878340

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Inline, Digital output terminal, Digital outputs: 32 (NPN), 24 V DC, 500 mA, connection method: 1-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

The figure shows the version IB IL 24 DO 32/HD-PAC

Product Description

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

Your advantages

- ✓ 32 digital outputs, NPN-wired
- ✓ Connection of actuators in single-wire technology
- ✓ Nominal current per output: 500 mA
- ✓ Total current of the terminal: 8 A
- ✓ Short-circuit-proof and overload-protected outputs



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 048538
GTIN	4046356048538
Weight per Piece (excluding packing)	216.800 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

Inline terminal - IB IL 24 DO 32/HD-NPN-PAC - 2878340

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

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
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

Mounting type	DIN rail
Net weight	135 g
Note on weight specifications	with connectors
Operating mode	Process data operation with 2 words

Interfaces

Designation	Inline local bus
No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kbps

Inline potentials

Designation	Communications power (U _L)
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	max. 140 mA
Power consumption	max. 1.05 W
Designation	Segment circuit supply (U _S)
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	max. 8 A
Power consumption	max. 2.8 W (Module, complete)

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Technical data

Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	1-wire
Number of outputs	32 (NPN)
Type of protection	Overload protection, short-circuit protection of outputs
Output voltage	24 V ($U_s - 1 \text{ V}$)
Maximum inrush current	max. 1.5 A (at nominal lamp load for 20 ms)
Nominal output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module	8 A
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 Ω)

Electrical isolation

Test section	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.
	7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min.

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Classifications

eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

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Classifications

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602

Approvals

Approvals

Approvals

DNV GL / BV / LR / ABS / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	A-13984
BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	20989/B2_BV
LR		http://www.lr.org/en	08/20033

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Approvals

ABS	http://www.eagle.org/eagleExternalPortalWEB/	17-HG1621871-PDA
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
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EAC		EAC-Zulassung
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cULus Recognized	
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Accessories

Accessories

Connector set

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



Connector set

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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Accessories

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm

Insert strip - ESL 62X46 - 0809502



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 46 mm