

IB IL INC-PAC - Inline function terminal



2861849

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Inline positioning terminal, complete with accessories (connector and marking field), 1 incremental encoder input, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 500 mA, 3-conductor connection technology

Your advantages

- Startup using hand-held operator panel mode
- Integrated monitoring functions
- 5 V and 24 V encoder supply including monitoring
- 24 V sensor supply incl. monitoring
- Backlash and friction compensation
- Gear ratio can be parameterized
- 3 digital inputs
- 4 digital outputs
- Position detection via symmetrical or asymmetrical incremental encoder with or without Z trace
- Software limit switch

Commercial data

Item number	2861849
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI162
GTIN	4017918894542
Weight per piece (including packing)	247.7 g
Weight per piece (excluding packing)	210 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	140.5 mm
Depth	71.5 mm

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

System properties

Programming data (LocalbusSlave)

Length code (hex)	02
ID code (dec.)	191
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	4 Byte

Fieldbus data telegram

Required parameter data	6 Byte
Required configuration data	5 Byte

Input data

Digital

Number of inputs	3
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Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	13 V DC ... 30 V DC
Connection method	Inline connector
Connection technology	3-conductor

Incremental encoder

Number of inputs	1
Input frequency (5 V)	0 kHz ... 500 kHz (symmetrical)
Input frequency (24 V)	0 Hz ... 50 kHz (asymmetrical)
Encoder signals	symmetrical encoders according to EIA-422 and asymmetrical encoders

Counter:

Number of inputs	3
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Output data

Digital

Number of outputs	4
Output voltage	24 V DC
Protective circuit	electronic short-circuit / overload protection

Product properties

Product type	I/O component
Product family	Inline
Type	modular

Electrical properties

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
	7.5 V supply (bus logic)/functional ground of the encoder supply 500 V AC 50 Hz 1 min
	24 V supply (I/O) / functional ground 500 V AC 50 Hz 1 min
	24 V supply (I/O)/functional ground of the encoder supply 500 V AC 50 Hz 1 min
	Functional ground of the encoder supply/functional ground 500 V AC 50 Hz 1 min

Supply

Drawing encoder supply voltage	Main circuit U_M
Encoder supply voltage	5 V DC (sym./asym.)
	24 V DC (Only asymmetrical encoders)
Encoder supply current	500 mA
	500 mA

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I/O voltage	24 V DC
I/O voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 1.2 V
Max. current consumption	110 mA

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 110 mA

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 1 A

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC (via voltage jumper)
Current draw	max. 2 A

Connection data

Connection technology

Connection name	Inline connector
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Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (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)

Mounting

Mounting type	DIN rail mounting
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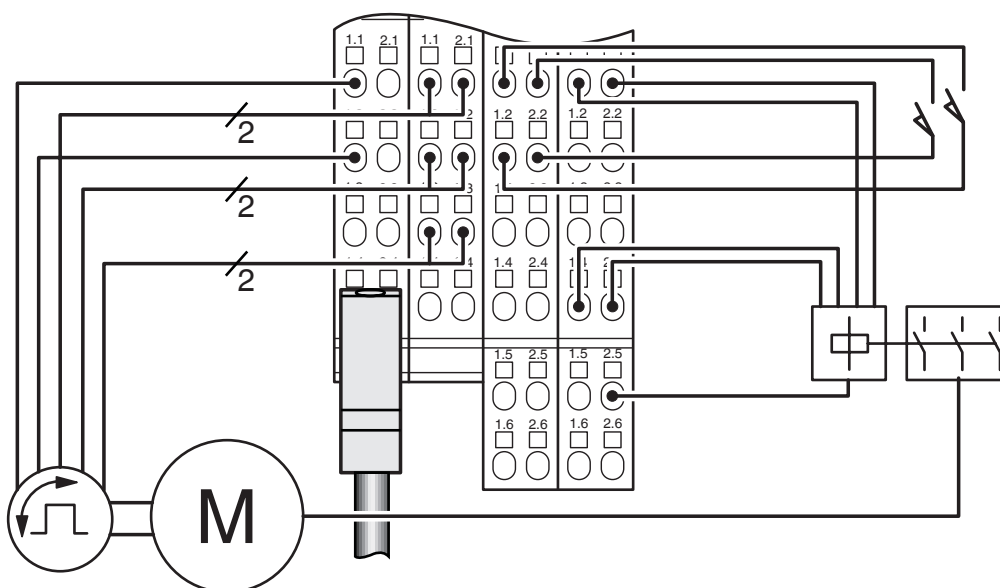
<https://www.phoenixcontact.com/us/products/2861849>

Drawings

Dimensional drawing



Connection diagram



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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