Inline function terminal - IB IL 24 IOL 4 DI 12-PAC - 2692717

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Inline IO-Link master, complete with accessories (connector and labeling field), 4 IO-Link ports, 12 digital inputs, 24 V DC, 2, 3-wire connection method

Product Description

The terminal is designed for use within an Inline station.
The terminal is used to operate IO-Link-compatible sensors and actuators (devices). It is also used to acquire digital signals.
IO-Link is the standard for consistent communication from the controller to the lowest field level. In IO-Link communication, the process data is forwarded during parallel service data transmission.
IO-Link is a point-to-point connection between an IO-Link port and the sensor or actuator. IO-Link technology uses the familiar signal technology of the 0 V and 24 V binary interface in order to transmit data using pulse modulation. IO-Link offers full backward compatibility with standard sensors/ actuators.
Using this terminal, IO-Link-compatible devices from any manufacturer can be operated on INTERBUS, PROFIBUS, and PROFINET.

Your advantages

- 4 type A IO-Link ports
- Optional use of the IO-Link ports in SIO mode as standard inputs or standard outputs
- Connections for 12 digital sensors
- Connection of sensors in 2 or 3-wire technology
- IO-Link specification V1.0.0

RoHS IO-Link

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 412902
GTIN	4046356412902

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	48.8 mm
Height	119.8 mm

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Dimensions

Depth	71.5 mm

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
Color	green
Net weight	200 g
Note on weight specifications	with connectors
Diagnostics messages	Short-circuit of a digital output in the SIO mode Yes
	Sensor supply short-circuit No
	Sensor supply overload No

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 (via voltage jumper)
Current consumption	max. 100 mA
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. 2 A (with load and port supply)
	max. 52 mA (without load)

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	Inline connector
Connection technology	3-wire
Number of inputs	12
Nominal input voltage U_{IN}	24 V DC

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Digital inputs

Nominal input current at U_{IN}	2.2 mA
Input voltage range "0" signal	< 5 V (typ.)
Input voltage range "1" signal	> 11 V DC (typ.)
Input voltage range	0 V DC ... 30 V DC
Delay at signal change from 0 to 1	3 ms
Delay at signal change from 1 to 0	3 ms
Input name	Digital inputs
Connection method	Inline connector
Number of inputs	max. 4
Nominal input current	5.5 mA (at 24 V DC)
Signal delay	3 ms
	3 ms
Permissible cable length	20 m

Digital outputs

Number of outputs	max. 4
Nominal current per channel	max. 200 mA ($I_{Nominal}$)
Maximum total current consumption	max. 800 mA
Limitation of the voltage induced on circuit interruption	approx. -1 V
Type of protection	Short-circuit protection
Behavior with overload	Output may be damaged
Behavior in case of short-circuit	Short-circuit protection

Electrical isolation

Test section	24 V supply U_S (IO-Link and digital inputs) / functional earth ground 500 V DC 50 Hz 1 min.
	24 V supply U_S (IO-Link and digital inputs) / 7.5 V supply (bus logic) 500 V DC 50 Hz 1 min.
	7.5 V supply (bus logics) / functional earth ground 500 V DC 50 Hz 1 min.

Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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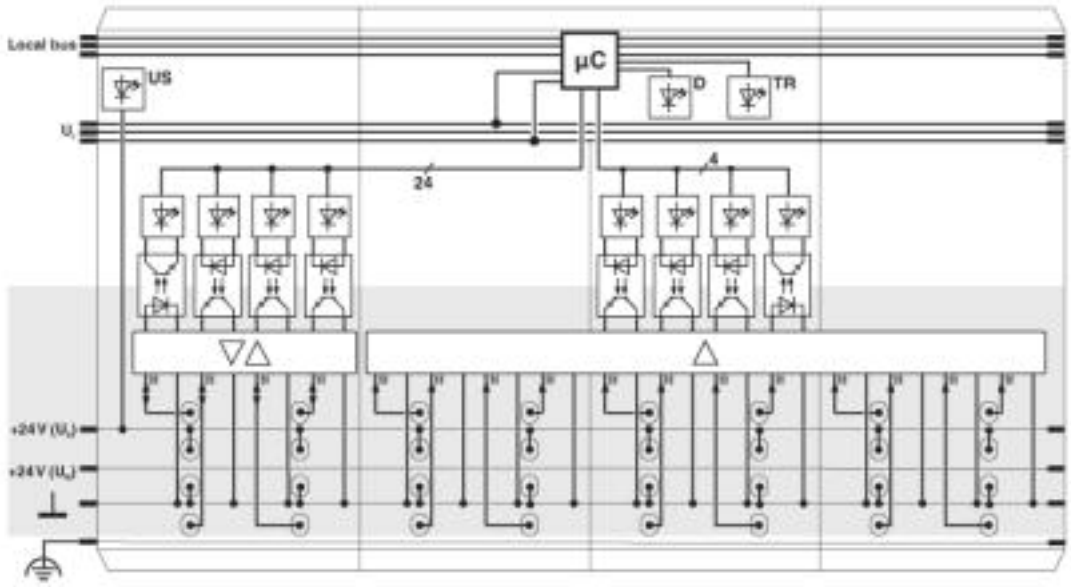
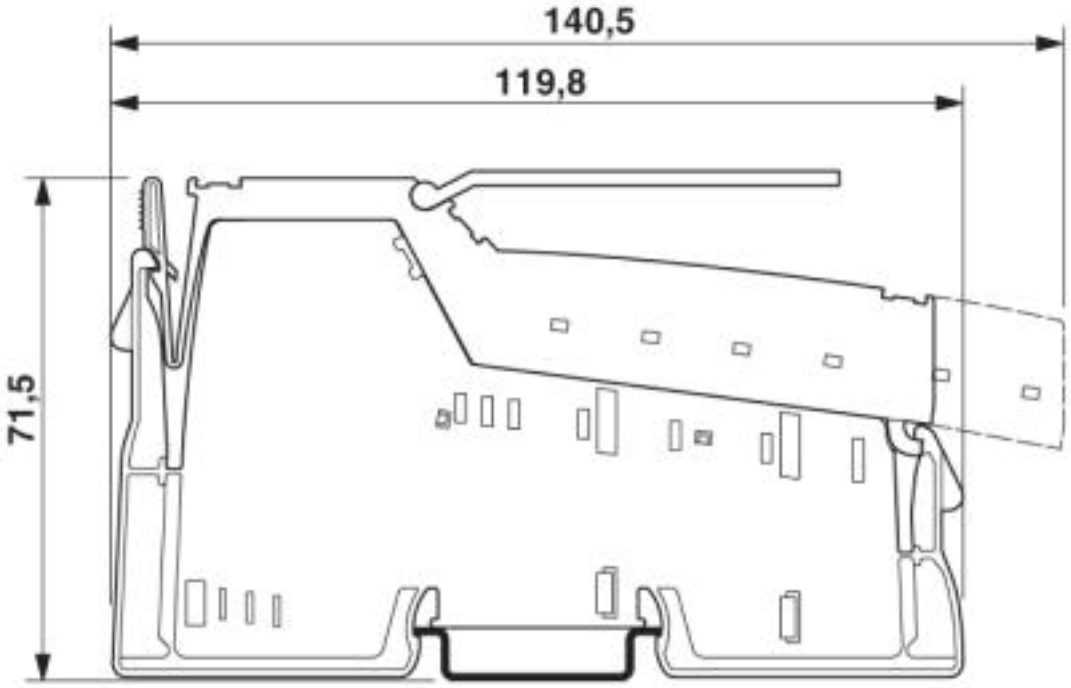
Block diagram



Internal wiring of the terminal points

Dimensional drawing



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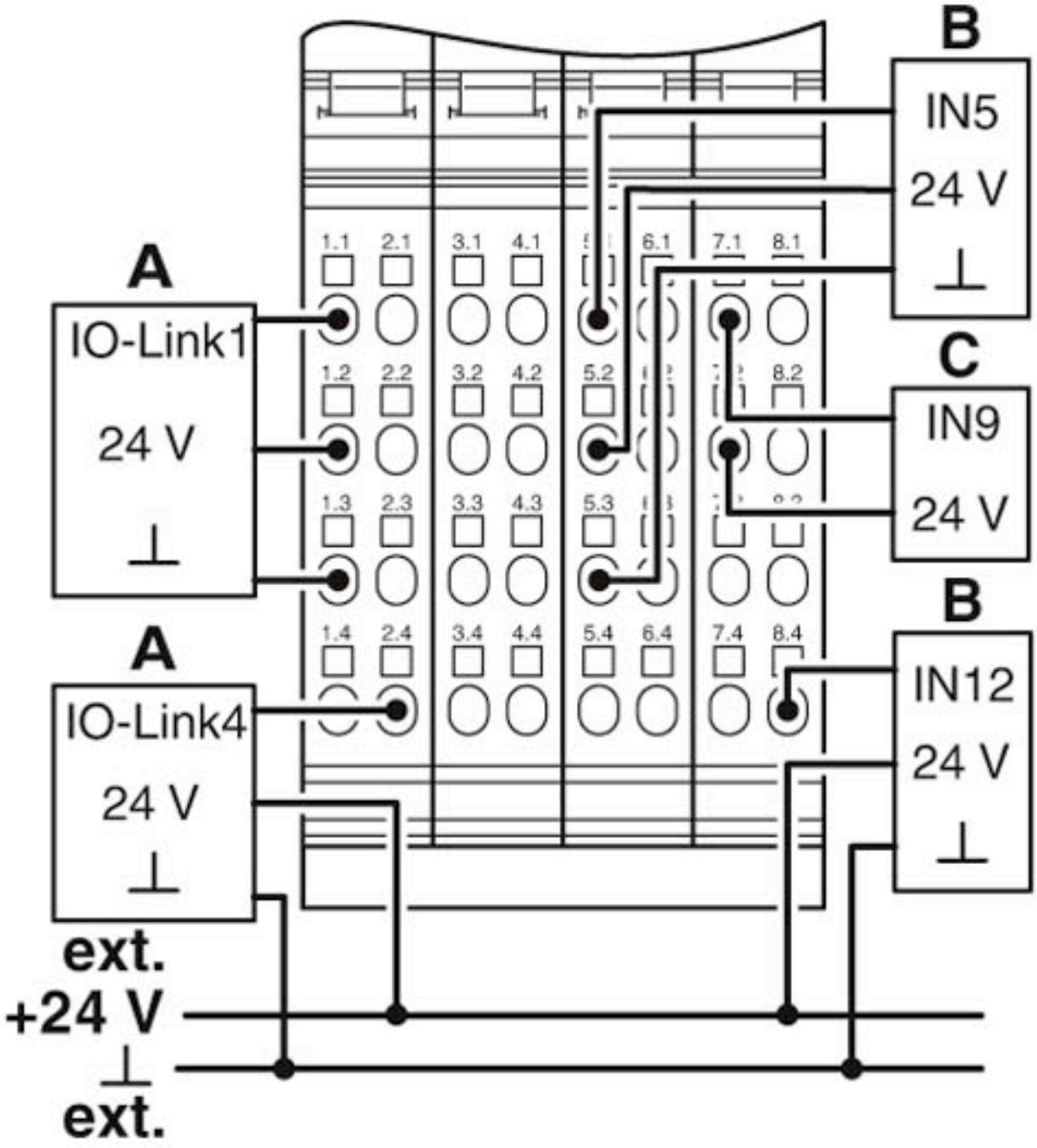
Connection diagram



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