Inline terminal - IB IL 24 DO 4/EF-ECO - 2702825

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Inline ECO, Digital output terminal, Digital outputs: 4, 24 V DC, 500 mA, Connection technology: 3-conductor, Transmission speed in the local bus 500 kbps, Degree of protection IP20, including Inline connector

Product Description

The terminal is designed for use within an Inline station.
It is used to output digital signals.
Inline ECO terminals are approved for the temperature range from 0°C to +55°C. The electronics base and Inline connector are supplied as standard.

Why buy this product

- 4 digital outputs
- Connection of actuators in 2 and 3-wire technology
- Nominal current per output: 500 mA
- Total current of the terminal: 2 A
- Short-circuit-proof and overload-protected outputs
- Diagnostic and status indicators
- Approved for use in a safety-related segment circuit

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 381473
GTIN	4055626381473
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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Technical data

Note

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

Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	0 °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

Connection data

Designation	Inline connector
Connection method	Spring-cage connection
Conductor cross section solid min.	0.08 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.08 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Stripping length	8 mm

General

Mounting type	DIN rail
Net weight	83.85 g
Note on weight specifications	with connector
Diagnostics messages	Short-circuit / overload of the digital outputs Error message in the diagnostic code (bus) and display (2 Hz) via the LED (D) on the module

Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps

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Technical data

Power supply for module electronics

Connection method	Spring-cage connection
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Communications power U_L	7.5 V
Current consumption	max. 44 mA (from the local bus)
Power consumption	max. 0.33 W (at U_L)

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	max. 44 mA
Main circuit supply U_M	24 V DC
Segment circuit supply U_S	24 V DC (nominal value)
Current consumption from U_S	max. 2 A
Power consumption	max. 0.33 W (at U_L)

Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	4
Protective circuit	Overload protection, short-circuit protection of outputs Zener diode in output chip
Output voltage	24 V DC (U_S - 1 V)
Nominal output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module	2 A
Nominal load, inductive	12 VA (1.2 H, 50 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 Ω)

Electrical isolation

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.

Standards and Regulations

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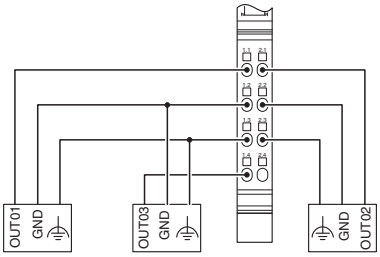
Technical data

Standards and Regulations

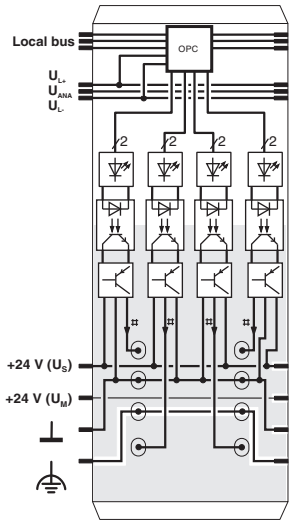
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Drawings

Connection diagram



Block diagram



Internal wiring of the terminal points

Dimensional drawing