

## 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 method: 3-wire, transmission speed in the local bus: 500 kbps, 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

### Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4055626381473

### Technical data

#### Note

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

Width	12.2 mm
Height	119.8 mm

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## Technical data

### Dimensions

Depth	71.5 mm
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### 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 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.08 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
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

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

### Inline potentials

Designation	Communications power (U <sub>L</sub> )
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	max. 44 mA
Power consumption	max. 0.33 W
Designation	Segment circuit supply (U <sub>S</sub> )
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

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### Technical data

#### Inline potentials

	0 A
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#### Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-wire
Number of outputs	4
Type of protection	Overload protection, short-circuit protection of outputs
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 $\Omega$ )
Nominal load, lamp	12 W
Nominal load, ohmic	12 W (48 $\Omega$ )

#### 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

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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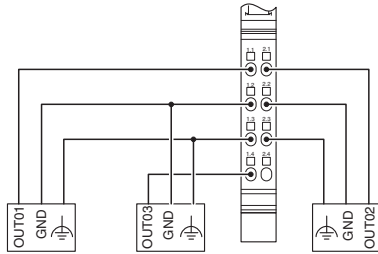
#### Environmental Product Compliance

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

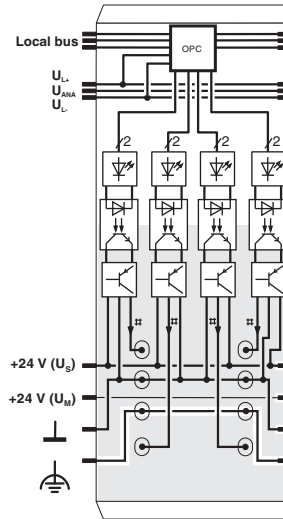
### Drawings

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

Connection diagram

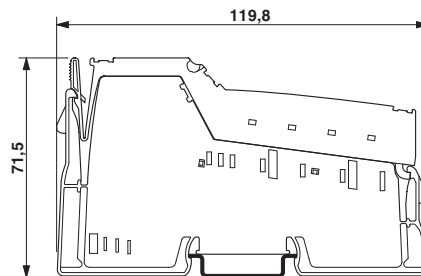


Block diagram



Internal wiring of the terminal points

Dimensional drawing



## Approvals

Approvals

Approvals


UL Listed / cUL Listed / cULus Listed


Ex Approvals

Approval details

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### Approvals

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cULus Listed			
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