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Inline function terminal - IB IL RS 485-ECO - 2702141

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Inline ECO communication terminal, for serial data transmission, 1 serial input and output channel in RS-485 format, with connector plug

Product Description


The terminal is designed for use within an Inline station.
The terminal is used to operate standard I/O devices with serial interfaces on a bus system.
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

- One serial input and output channel in RS-485 format
- Data is transmitted in transparent mode
- Transmission speeds can be set up to 38400 Baud
- Number of data bits, stop bits and parity can be set
- Parameterization via process data



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 983235
GTIN	4046356983235

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
Depth	71.5 mm

Connection data

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Technical data

Connection data

Designation	Inline connector
Connection method	Spring-cage connection
Conductor cross section solid min.	0.08 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.08 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Stripping length	8 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

General

Mounting type	DIN rail
Net weight	86.1 g
Note on weight specifications	with connector

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Interface	RS-485
Connection method	Spring-cage connection
Transmission physics	Copper
Data bits	6 ... 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

Inline potentials

Designation	Communications power (U _L)
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	typ. 70 mA
	max. 85 mA
Power consumption	typ. 525 mW (at U _L)

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Technical data

Serial input/output channel

Parity	Even, odd or no parity
Transmission type	Transparent mode

Electrical isolation

Test section	Serial interface/7.5 V supply (bus logic) 500 V AC 50 Hz 1 min.
	Serial interface/24 V supply U_M 500 V AC 50 Hz 1 min.
	Serial interface/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.
	24 V supply (U_M)/functional earth ground 500 V AC 50 Hz 1 min.

Standards and Regulations

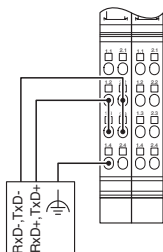
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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Environmental Product Compliance

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

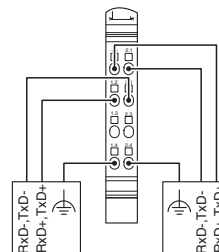
Drawings

Connection diagram



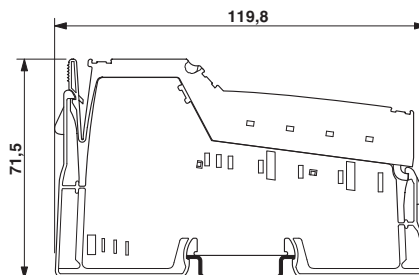
Inline terminal as network end point

Connection diagram



Inline terminal in the network center

Dimensional drawing



Inline function terminal - IB IL RS 485-ECO - 2702141

Approvals




Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cULus Listed			

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