

Inline function terminal - IB IL RS 485/422-PRO-PAC - 2863627

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Inline RS-485/422 function terminal, for serial data transmission, complete with accessories (connector and labeling field), 1 serial input and output channel in RS-485/422 design, pure process data communication

Product description

The serial Inline communication terminal IL RS 485/422-PRO permits simple and fast integration of scanners, scales and printers into existing production processes.

Parameter setting and data exchange is performed exclusively with process data. This means faster communication times for small data volume than with the PCP version

A wide range of applications is supported thanks to various protocols and transmission speeds up to 38400 baud.

Product Features

- ✓ 1 serial input and output channel as RS-485 or RS-422 version
- ✓ Various protocols supported
- ✓ Transmission speeds can be set up to 38400 Baud
- ✓ Number of data bits, stop bits and parity can be set
- ✓ 4 kbyte receive buffer and 1 kbyte transmit buffer



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	178.3 GRM
Custom tariff number	85389091
Country of origin	Germany

Technical data

Dimensions

Width	24.4 mm
Height	136.8 mm
Depth	71.5 mm

General

Number of connectors	2
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Technical data

General

Color	green
Weight	135 g
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (in the range of -25°C ... +55°C, appropriate measures against increased humidity (> 85%) must be taken.)
Permissible humidity (storage/transport)	75 % ... 85 % (Slight temporary condensation may sometimes appear on the housing, e.g. when the terminal block is brought out of a vehicle into an enclosed room.)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Interfaces

Interface	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Interface	RS-422/485
Connection method	Spring-cage connection
Transmission speed	110 Bit/s ... 38400 Bit/s (configurable)
Transmission physics	Copper
Input buffer	4 kByte
Output buffer	1 kByte
Data bits	7 or 8
Stop bits	1 or 2

Power supply

Typical current consumption	170 mA
I/O voltage	24 V DC (via voltage jumper)
I/O voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)

Serial input/output channel

Parity	Even, odd or no parity
Transmission type	Transparent mode, end-end mode, dual buffer mode, 3964R, XON/XOFF, MOVILINK protocol

Inline potentials

Communications power U_L	7.5 V (via voltage jumper)
Current consumption from U_L	typ. 170 mA
	max. 260 mA (all connections of the serial interface are short-circuited)

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Electrical isolation

Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V 50 Hz 1 min
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	RS-485/422 interface / 7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	RS-485/422 interface / 24 V supply (I/O) 500 V AC 50 Hz 1 min
	RS-485/422 interface / functional earth ground 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 logics) / functional earth ground 500 V AC 50 Hz 1 min
	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min

Classifications

eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250203
eCl@ss 5.0	27250304
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals



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Approvals

Approvals

UL Recognized / cUL Recognized / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / BSH / cULus Recognized / GL

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

LR

GL

BV

DNV

ABS

RINA

GL-SW

BSH

BSH

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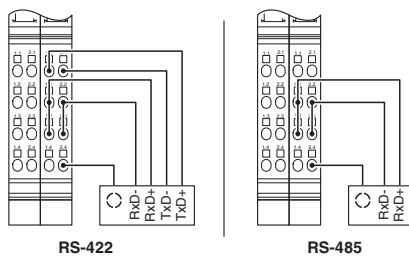
Approvals

cULus Recognized  US

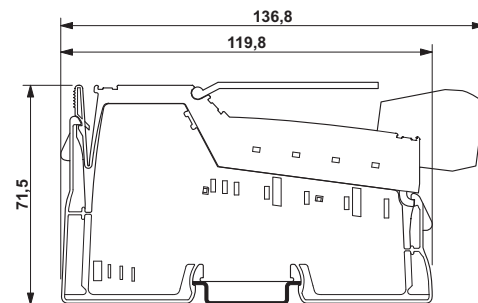
GL

Drawings

Connection diagram



Dimensioned drawing



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Block diagram

