

Inline function terminal - IB IL RS 485/422-PAC - 2861933

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Inline RS-485/422 function terminal block, complete with accessories (plug and labeling field), 1 serial input and output channel

Product Description

The IB IL RS 485/422 INTERBUS Inline function terminal with standard interface RS-485/ 422 is a communications terminal which allows intelligent I/O devices with a corresponding serial interface to operate on the INTERBUS system. During data transmission, you can choose between two different protocols and two different operating modes. If only one I/O device is connected, the full duplex mode (RS-422) must be set. In the half duplex mode an RS-485 network can be established. The terminal block is configured through INTERBUS. Two words are available for each input parameter and output parameter data in the PCP channel. Parity, data bits and stop bits and a transmission speed up to 19200 baud can be configured. The terminal block also has a process data input word (status word) and output word (control word). The transmitted data is temporarily stored in a 1 Kbyte buffer and the received data in a 4 kbyte buffer. To guarantee data exchange, a software handshake can be programmed for the mutual signaling of "clear to send" and "clear to receive". The INTERBUS Inline function terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the ZBFM-6... Zack strip for labeling the terminal points.

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
- Diagnostic and status indicators

Key commercial data

package_quantity	1
GTIN	4017918894627

Technical data

Dimensions

Width	24.4 mm
Height	136.8 mm
Depth	71.5 mm

General

Number of connectors	2
Color	green
Weight	135 g
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 55 °C

Inline function terminal - IB IL RS 485/422-PAC - 2861933

Technical data

General

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, Modbus RTU / ASCII

Inline potentials

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

Electrical isolation

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

Inline function terminal - IB IL RS 485/422-PAC - 2861933

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Electrical isolation

Test section	RS-485/422 interface / functional earth ground 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min
Test section	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	27242605
eCl@ss 6.0	27242605
eCl@ss 7.0	27242605
eCl@ss 8.0	27242605

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

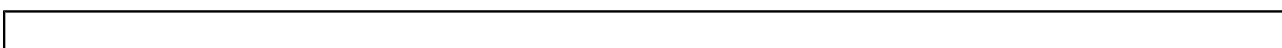
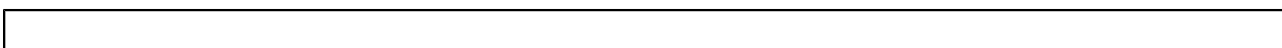
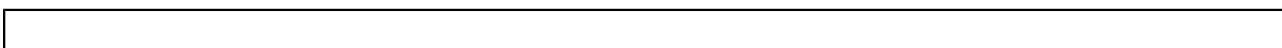
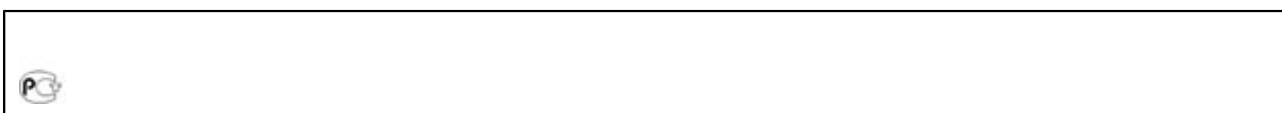
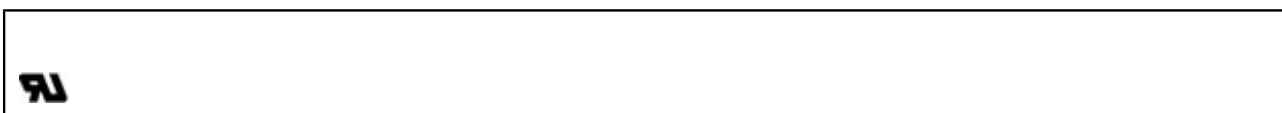
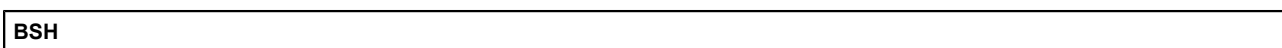
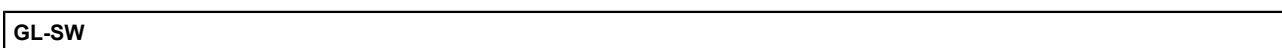
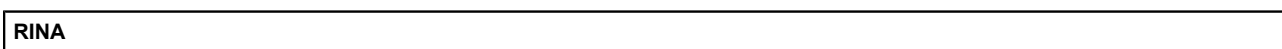
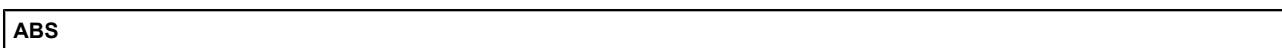
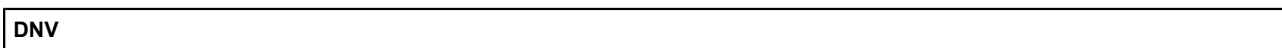
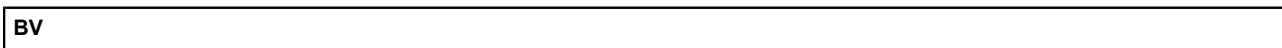
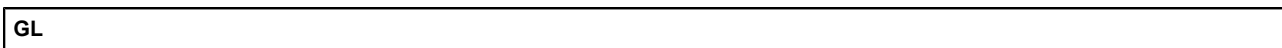
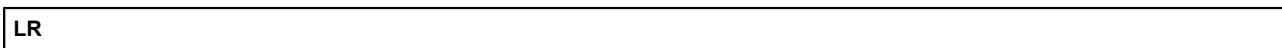
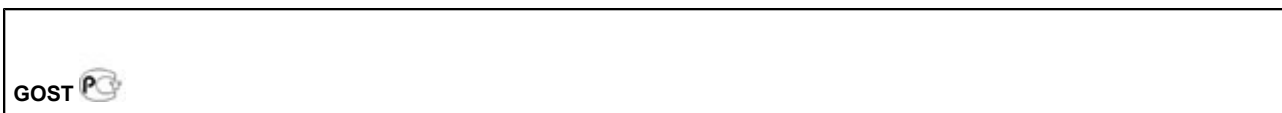
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Approval details



Inline function terminal - IB IL RS 485/422-PAC - 2861933

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accessories

Connector set

IB IL AO/CNT-PLSET - 2732664



Plug

IB IL SCN-6 SHIELD - 2726353



Labeling panel

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accessories

IB IL FIELD 2 - 2727501



Terminal marking

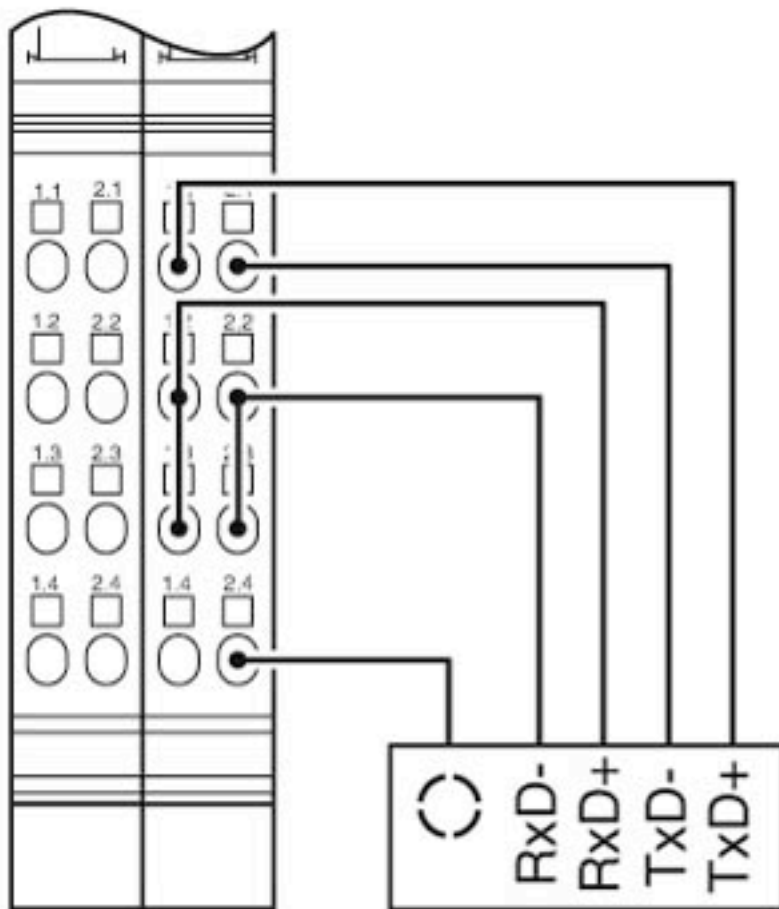
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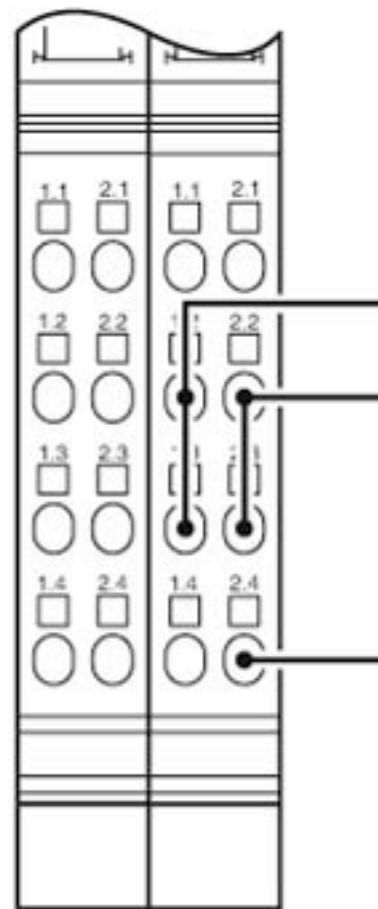
Drawings

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Connection diagram

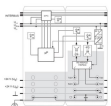


RS-422



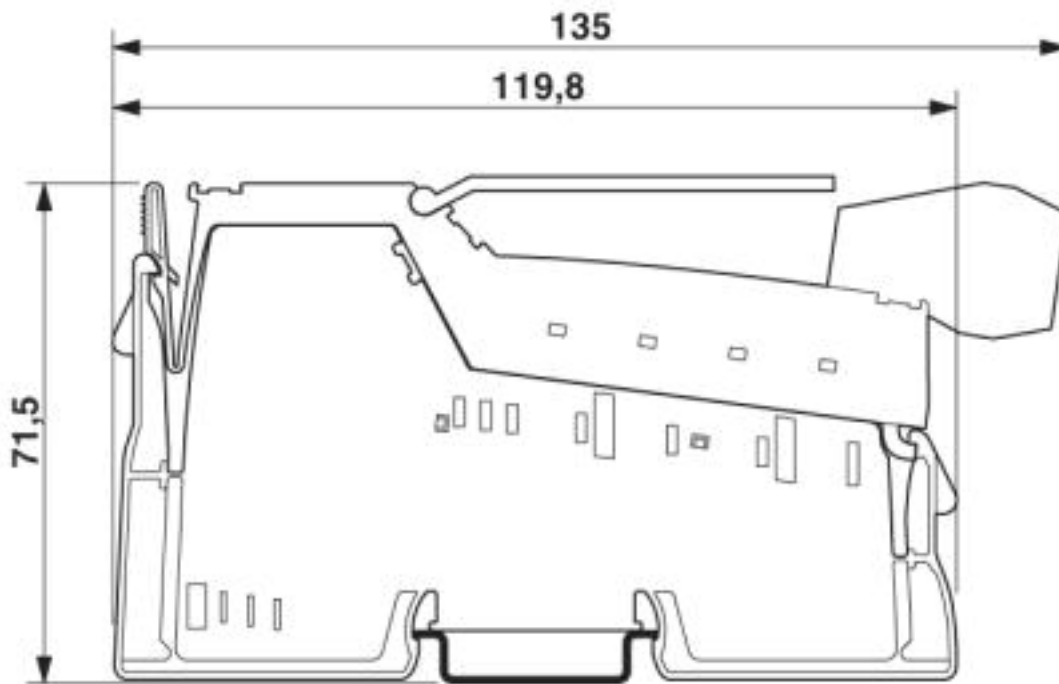
RS-4

Block diagram



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Dimensioned drawing



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