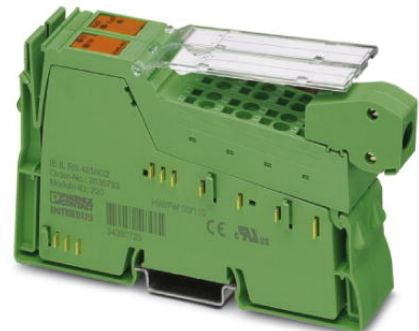


## IB IL RS 485/422-PAC

Order No.: 2861933



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2861933>

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

### Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 894627 |
| sales group              | K413                                                                                                  |
| Pack                     | 1 pcs.                                                                                                |
| Customs tariff           | 85389091                                                                                              |
| Catalog page information | Page 297 (AX-2009)                                                                                    |

### Product notes

WEEE/RoHS-compliant since:  
07/21/2008



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### 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.

#### Technical data

##### Interfaces

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Interface          | Inline local bus                                                      |
| Type of connection | Inline data jumper                                                    |
| Transmission speed | 500 kBit/s                                                            |
| Interface          | Either RS-485 half duplex or RS-422 full duplex (as alternative only) |
| Type of connection | Spring-cage connection                                                |
| Transmission speed | 110 Bit/s ... 38400 Bit/s (configurable)                              |

##### Power supply

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

##### 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 |
|              | 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               |

#### Serial input/output channel

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Input buffer       | 4 kByte                                                                               |
| Output buffer      | 1 kByte                                                                               |
| Transmission speed | 500 kBit/s                                                                            |
| Parity             | Even, odd or no parity                                                                |
| Data bits          | 7 or 8                                                                                |
| Stop bits          | 1 or 2                                                                                |
| Transmission type  | Transparent mode, end-end mode, dual buffer mode, 3964R, XON/XOFF, Modbus RTU / ASCII |

#### General data

|                      |          |
|----------------------|----------|
| Weight               | 135 g    |
| Number of connectors | 2        |
| Width                | 24.4 mm  |
| Height               | 136.8 mm |
| Depth                | 71.5 mm  |

#### Inline potential routing

|                                |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| 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) |

#### Certificates / Approvals



Certification

ABS, BV, CUL, DNV, GL, GOST, LR, UL

#### Accessories

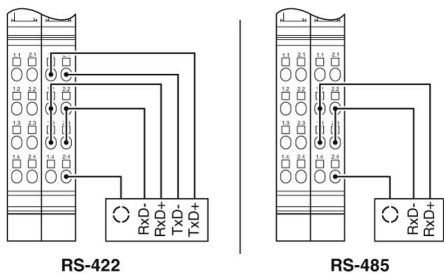
| Item           | Designation   | Description                                                 |
|----------------|---------------|-------------------------------------------------------------|
| <b>Marking</b> |               |                                                             |
| 0809492        | ESL 62X10     | Insert strip for laser printer, lettering field: 62 x 10 mm |
| 2727501        | IB IL FIELD 2 | Labeling field, width: 12.2 mm                              |

Plug/Adapter

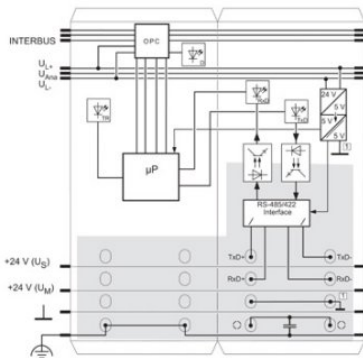
|         |                    |               |
|---------|--------------------|---------------|
| 2732664 | IB IL AO/CNT-PLSET | Connector set |
|---------|--------------------|---------------|

Diagrams/Drawings

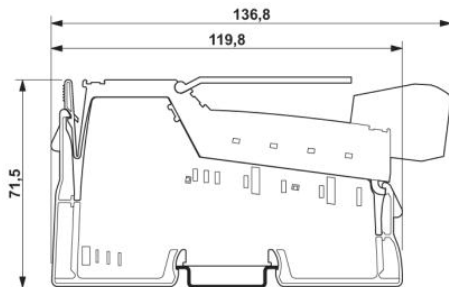
Connection diagram



Block diagram



Dimensioned drawing



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