

# IB IL RS 485/422 - Inline function terminal



2836793

<https://www.phoenixcontact.com/us/products/2836793>

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Inline RS-485/422 function terminal block, without accessories, 1 serial input and output channel

## Product description

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

## Your advantages

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

## Commercial data

Item number	2836793
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI151
GTIN	4017918160814
Weight per piece (including packing)	131.3 g
Weight per piece (excluding packing)	131.3 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Type	modular
Number of plugs	2

### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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### System properties

#### Programming data

Length code (hex)	01
ID code (dec.)	220
Length code (dec)	01
Process data channel	16 bit
Input address area	2 Byte
Output address area	2 Byte
Parameter channel (PCP)	4 Byte
Register length (bus)	48 bit

#### Fieldbus data telegram

Required parameter data	27 Byte
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### Electrical properties

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 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 logic)/functional ground 500 V AC 50 Hz 1 min
	24 V supply (I/O) / functional ground 500 V AC 50 Hz 1 min

#### Supply

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)
Residual ripple	± 1.2 V
Typical current consumption	170 mA

#### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 260 mA (all connections of the serial interface are short-circuited)

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typ. 170 mA

## Connection data

### Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16

## Interfaces

### Inline local bus

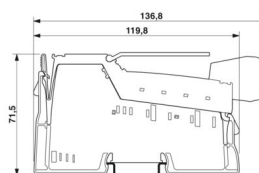
Connection method	Inline data jumper
Transmission speed	500 kbps

### RS-485 half duplex or RS-422 full duplex (as alternative only)

Connection method	Spring-cage connection
Transmission speed	110 bps ... 38400 bps (configurable)
Transmission physics	Copper
Data bits	7 or 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

## Dimensions

### Dimensional drawing



Width	24.4 mm
Height	119.8 mm
Depth	71.5 mm

## Material specifications

Color	green
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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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.)

## Mounting

Mounting type	DIN rail mounting
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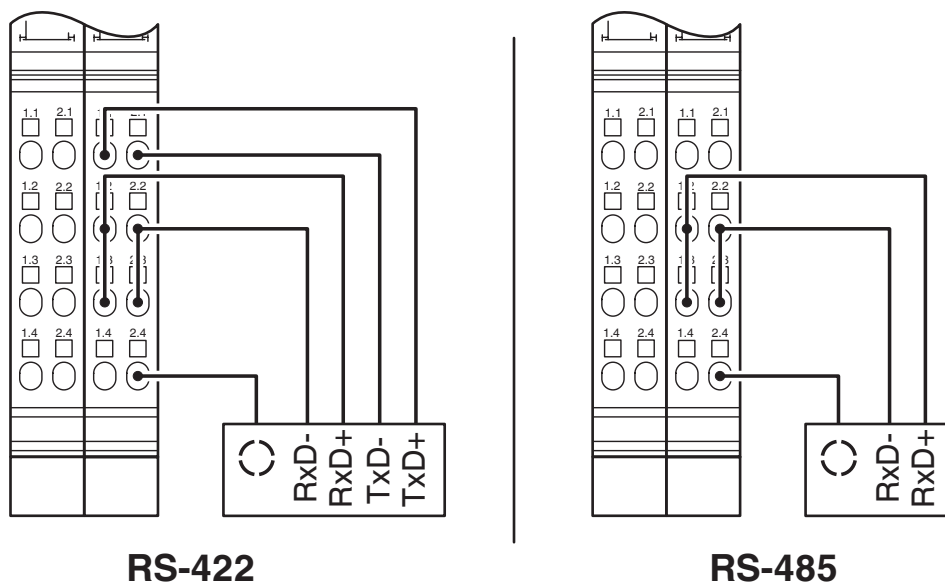
<https://www.phoenixcontact.com/us/products/2836793>

## Drawings

Dimensional drawing



Connection diagram

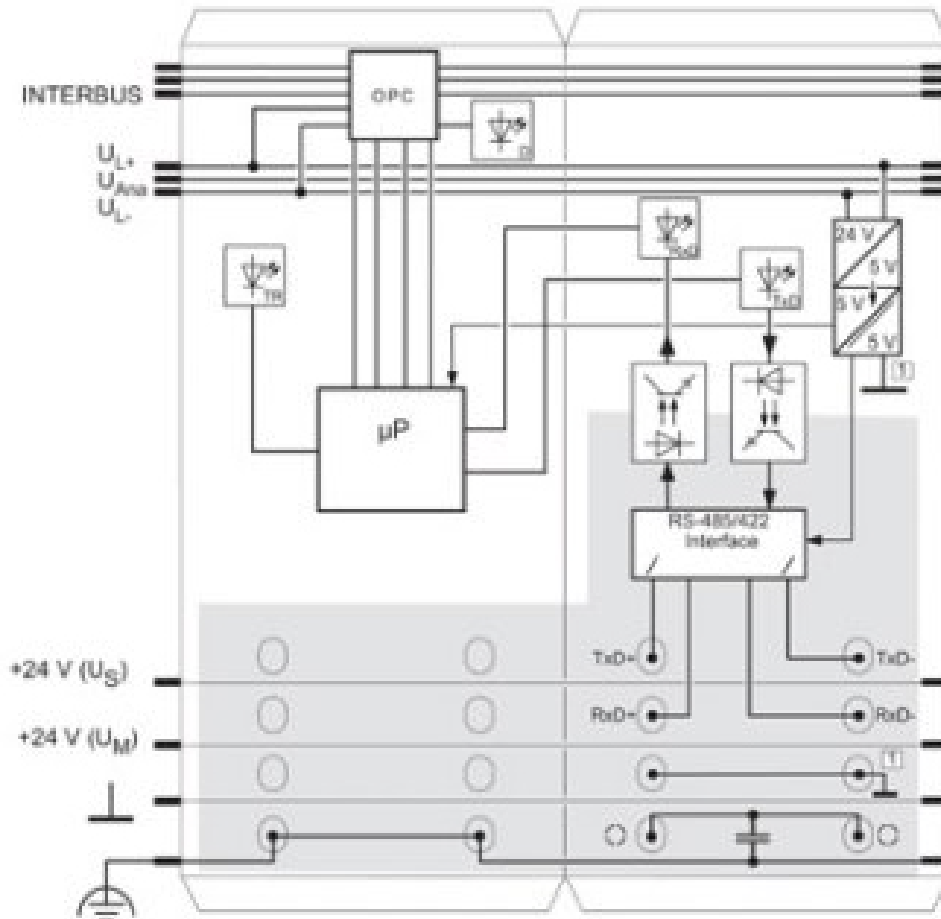


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Block diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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