

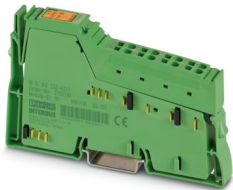
# IB IL RS 232-ECO - Communication module



2702795

<https://www.phoenixcontact.com/us/products/2702795>

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Inline, Communication module, Serial data transmission; interface: RS-232: 1; Transmission speed: 110 bps ... 38400 bps; transmission speed in the local bus: 500 kbps; degree of protection: IP20; Communication via process data; Scope of supply: including Inline connector

## 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.

## Your advantages

- One serial RS-232 input and output channel
- Data is transmitted in transparent mode
- Transmission speed can be set up to 38400 bps
- Number of data bits, stop bits and parity can be set
- RTS and CTS handshake signals available
- Parameterization and data exchange via process data
- Diagnostic and status indicators

## Commercial data

Item number	2702795
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI151
GTIN	4055626351629
Weight per piece (including packing)	73.28 g
Weight per piece (excluding packing)	59.77 g
Customs tariff number	85389099
Country of origin	DE

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## Technical data

### Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

### Notes

Note on application

Note on application	Only for industrial use
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### Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

RS-232

Number of interfaces	1
Connection method	Spring-cage connection
Transmission speed	110 bps ... 38400 bps (can be parameterized)
Transmission physics	Copper
Data bits	6 ... 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

### System properties

Module

ID code (dec.)	191
ID code (hex)	BF
Length code (hex)	07
Length code (dec)	07
Process data channel	112 bit
Input address area	14 Byte
Output address area	14 Byte
Register length	112 bit

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Required parameter data	16 Byte
Required configuration data	5 Byte

## Product properties

Product type	I/O component
Product family	Inline
Type	modular
Installation location	Control cabinet
Scope of supply	including Inline connector
Special properties	Communication via process data

## Electrical properties

Maximum power dissipation for nominal condition	0.7 W
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### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 90 mA typ. 70 mA

### Electrical isolation/isolation of the voltage ranges

Test voltage: Serial interface/7.5 V supply (bus logic)	500 V AC, 50 Hz, 1 min
Test voltage: Serial interface/24 V supply $U_M$	500 V AC, 50 Hz, 1 min
Test voltage: Serial interface/functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logic)/functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply ( $U_M$ )/functional ground	500 V AC, 50 Hz, 1 min

## Connection data

### Connection technology

Connection name	Inline connector
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### 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
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)

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Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
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## Standards and regulations

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

Mounting type	DIN rail mounting
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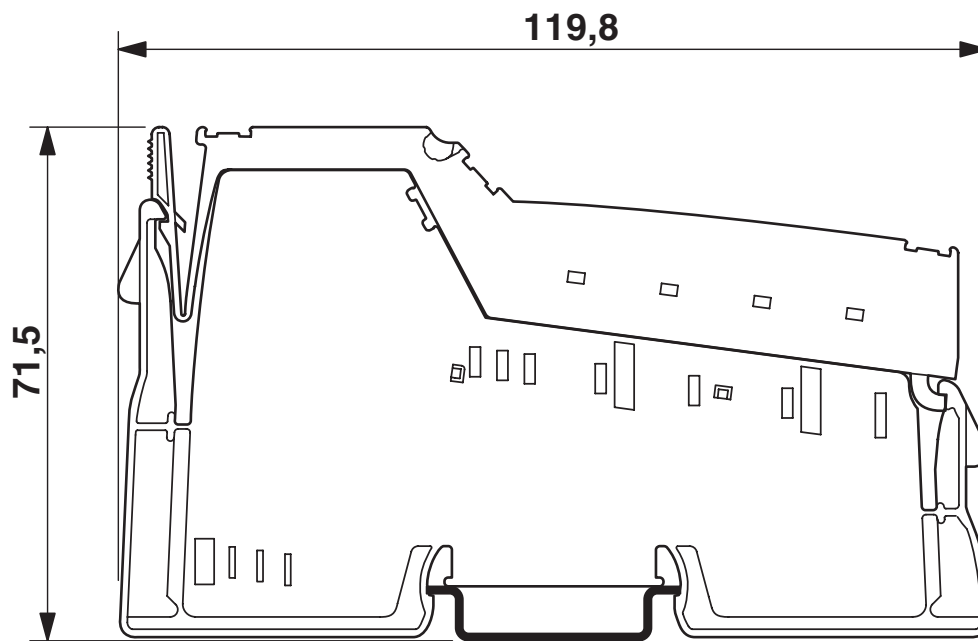


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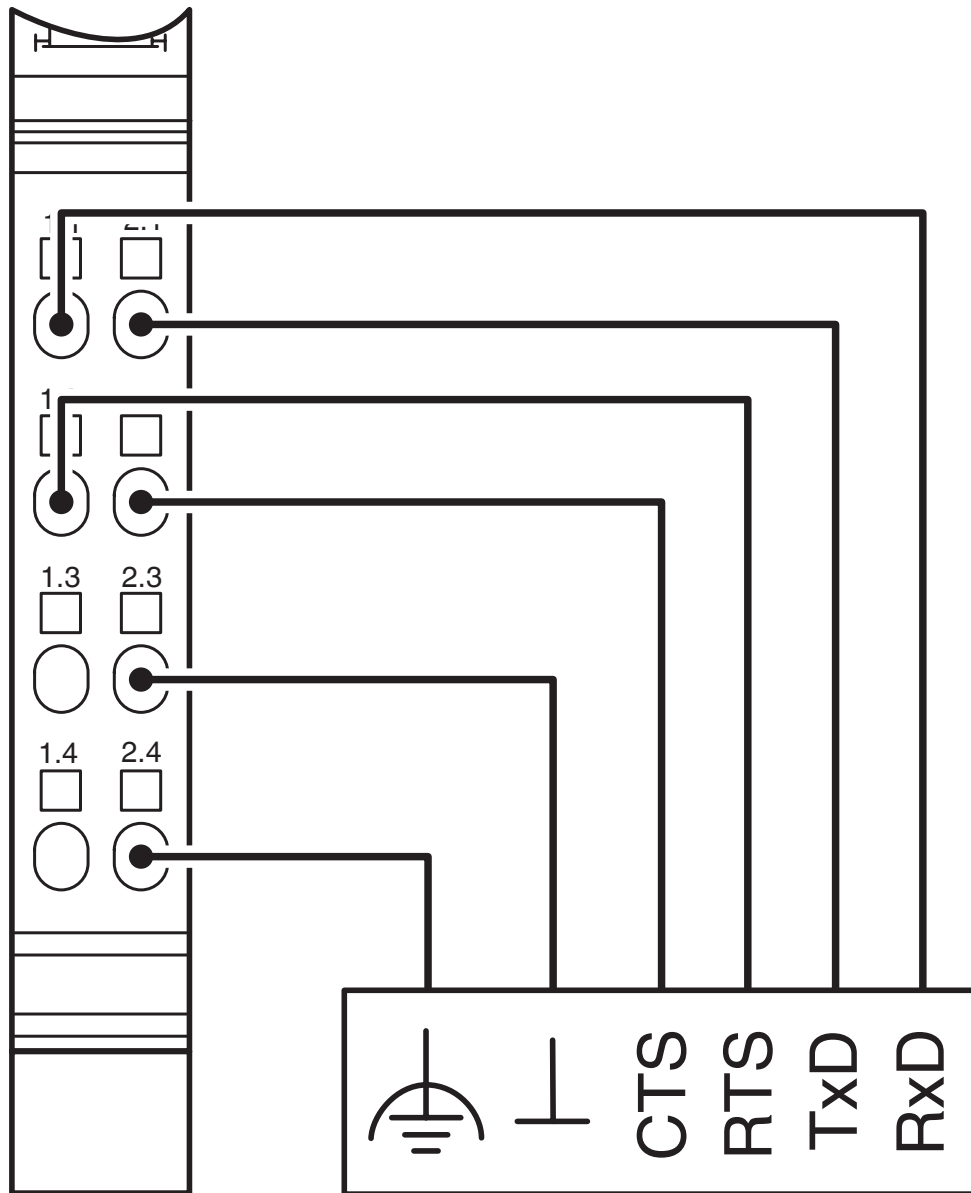
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## Drawings

Dimensional drawing



Connection diagram



RS-232 interface wiring: four-wire handshake

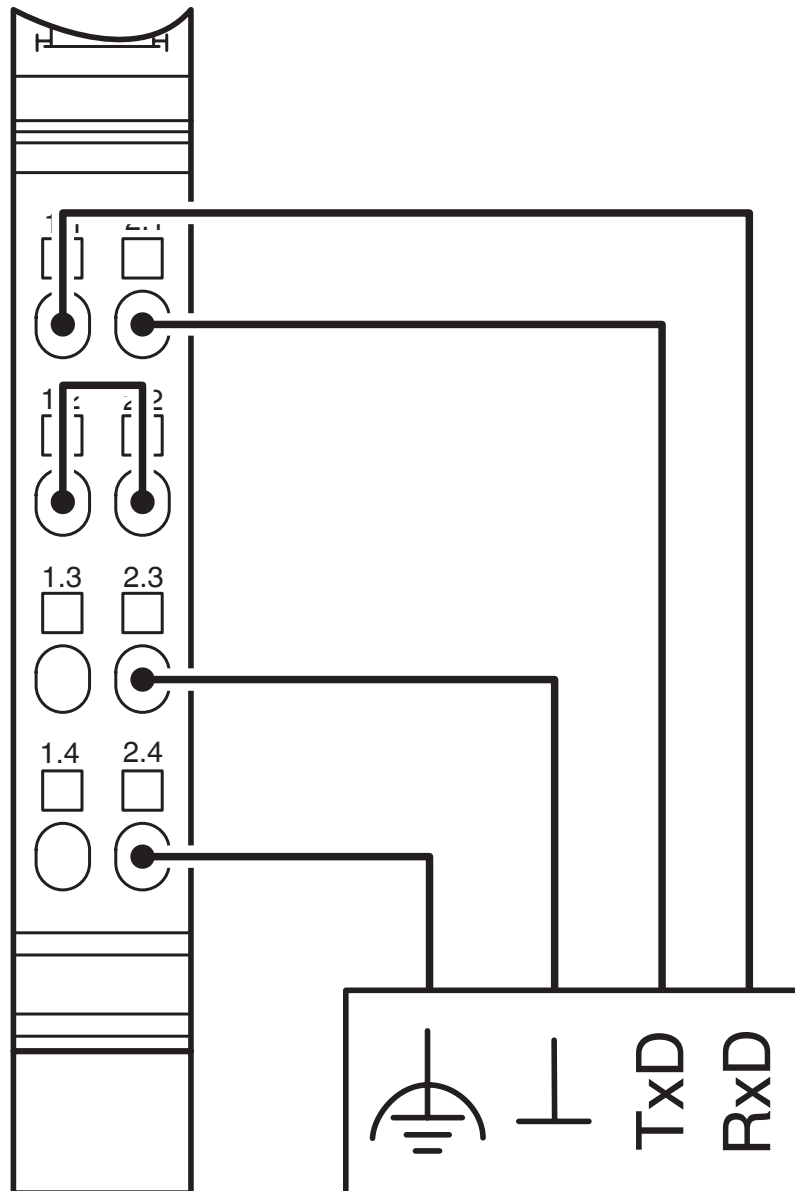
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Connection diagram



RS-232 interface wiring: without handshake

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## Approvals

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**cULus Listed**

Approval ID: E238705



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## Classifications

### ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

### ETIM

ETIM 10.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

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