

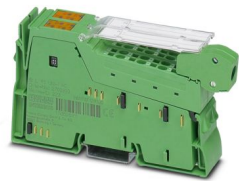
IB IL RS UNI-2MBD-PAC - Communication module



2701025

<https://www.phoenixcontact.com/pc/products/2701025>

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Inline, Communication terminal, interface RS-232, RS-485, RS-422: 1 (be operated simultaneously), transmission speed in the local bus: 2 Mbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

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

Your advantages

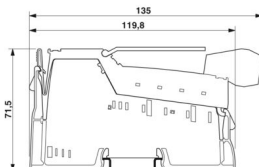
- A serial input and output channel in RS-232, RS-422, and RS-485 format
- Various protocols supported
- Transmission speed can be set up to 250000 bps
- Number of data bits, stop bits and parity can be set
- Parameterization via process data or PCP
- Process data width can be set via DIP switches: 7, 15 or 31 words

Commercial data

Item number	2701025
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI151
GTIN	4046356681773
Weight per piece (including packing)	174.3 g
Weight per piece (excluding packing)	135 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	24.3 mm
Height	135.4 mm
Depth	71.5 mm

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	2 Mbps

RS-232, RS-485, RS-422

Number of interfaces	1 (be operated simultaneously)
Connection method	Spring-cage connection
Note on the connection method	Use shielded cables.
Transmission speed	110 bps ... 250000 bps (can be parameterized)
Transmission physics	Copper
Protocols supported	Transparent, end-to-end, XON/XOFF
Termination resistor	typ. 120 Ω (active, integrated)
Data bits	5 ... 8
Stop bits	1 or 2
Input buffer	4 kByte
Output buffer	1 kByte

System properties

Module

ID code (dec.)	223
ID code (hex)	DF
Length code (hex)	1F
Length code (dec)	31
Process data channel	496 bit
Input address area	max. 62 Byte
Output address area	max. 62 Byte
Register length	64 Byte
Required parameter data	23 Byte

Required configuration data	5 Byte
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Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of delivery	including Inline connectors and marking fields

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	max. 1.3 W
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Potentials

Power consumption	max. 1.3 W (at U_L and U_M , within the permissible operating temperature)
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 90 mA (all connections of the serial interface are short-circuited) typ. 78 mA
Power consumption	typ. 585 mW

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC (via voltage jumper)
Current draw	max. 25 mA typ. 15 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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Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm² ... 1.5 mm²
Conductor cross section flexible	0.08 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16

Stripping length	8 mm
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Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross section, flexible	0.08 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °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 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

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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Approvals

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UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	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(a), 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.)	Lead(CAS: 7439-92-1)
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Accessories

IB IL AO/CNT-PLSET - Connector set

2732664

<https://www.phoenixcontact.com/pc/products/2732664>



Connector set

IB IL SCN-6 SHIELD - Inline shield connector

2726353

<https://www.phoenixcontact.com/pc/products/2726353>



Inline shield connector

IB IL FIELD 2 - Marking field

2727501

<https://www.phoenixcontact.com/pc/products/2727501>



Marking field, width: 12.2 mm

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ESL 62X10 - Insert strip

0809492

<https://www.phoenixcontact.com/pc/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, CMS-P1-PLOTTER, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72



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PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

info@phoenixcontact.com