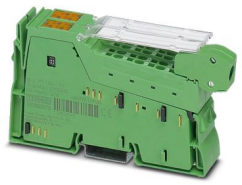
IB IL RS UNI-PAC - Communication module

2700893

https://www.phoenixcontact.com/us/products/2700893

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Inline, Communication terminal, interface RS-232, RS-485, RS-422: 1 (be operated simultaneously), transmission speed in the local bus: 500 kbps, 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

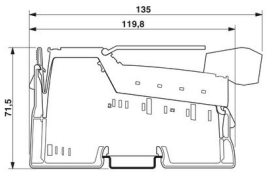
- A serial input and output channel in RS-232, RS-422, and RS-485 format
- Various protocols supported
- Transmission speed can be set up to 250000 bps
- Number of data bits, stop bits and parity can be set
- Parameterization via process data or PCP
- Process data width can be set via DIP switches: 7,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

Commercial data

Item number	2700893
Packing unit	1 pc
Sales key	DR01
Product key	DRI151
Catalog page	Page 148 (C-6-2019)
GTIN	4046356657129
Weight per piece (including packing)	169.9 g
Weight per piece (excluding packing)	135 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	24.4 mm
Height	135 mm
Depth	71.5 mm

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

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

Product properties

Type	modular
Product type	I/O component
Product family	Inline
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

Potentials

Power consumption	max. 1.2 W (at U_L and U_M, within the permissible operating temperature)

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

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

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)

Mounting

Mounting type	DIN rail mounting

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com