IBS IL 24 RB-T-XC-PAC - Communication module

2701151

https://www.phoenixcontact.com/us/products/2701151

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Inline, branch terminal, INTERBUS, Inline shield plug, with remote bus branch, extreme conditions version, transmission speed in the local bus: 500 Kbps, degree of protection: IP20, including Inline connector and marking field

Your advantages

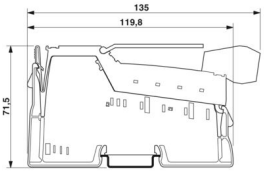
- Diagnostic and status indicators
- Can be used under extreme ambient conditions
- Extended temperature range of -40 °C ... +70 °C (see “Tested successfully: use under extreme ambient conditions” in the data sheet)
- Coated PCBs

Commercial data

Item number	2701151
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI152
GTIN	4046356713788
Weight per piece (including packing)	96 g
Weight per piece (excluding packing)	67 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	135 mm
Depth	71.5 mm

Notes

Note on application

Note on application	Only for industrial use

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	green (RAL 6021)

Interfaces

INTERBUS

Connection method	Inline data jumper
Transmission speed	500 kbps

INTERBUS

Connection method	Inline shield connector
Transmission speed	500 kbps
Transmission physics	RS-485

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

System properties

System limits

Number of local bus devices that can be connected	max. 63 (Consider the logic current consumed by the devices; the branch terminal does not count as an Inline station device.)

Programming data

Length code (hex)	0
ID code (dec.)	04
Length code (dec)	0
Process data channel	0 bit
Input address area	0 Byte
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	0 bit

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	including Inline connector and labeling field
Special properties	with remote bus branch
	Extreme conditions version

Electrical properties

Potentials: Supply of analog modules (U_{ANA})

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	typ. 29 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus, 5 V supply outgoing remote bus, 5 V supply logic	500 V AC, 50 Hz, 1 min
Test voltage: Remote bus branch	500 V AC, 50 Hz, 1 min
Test voltage: Functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Inline connector

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
	-40 °C ... 70 °C (Extended, see section “Tested successfully: use

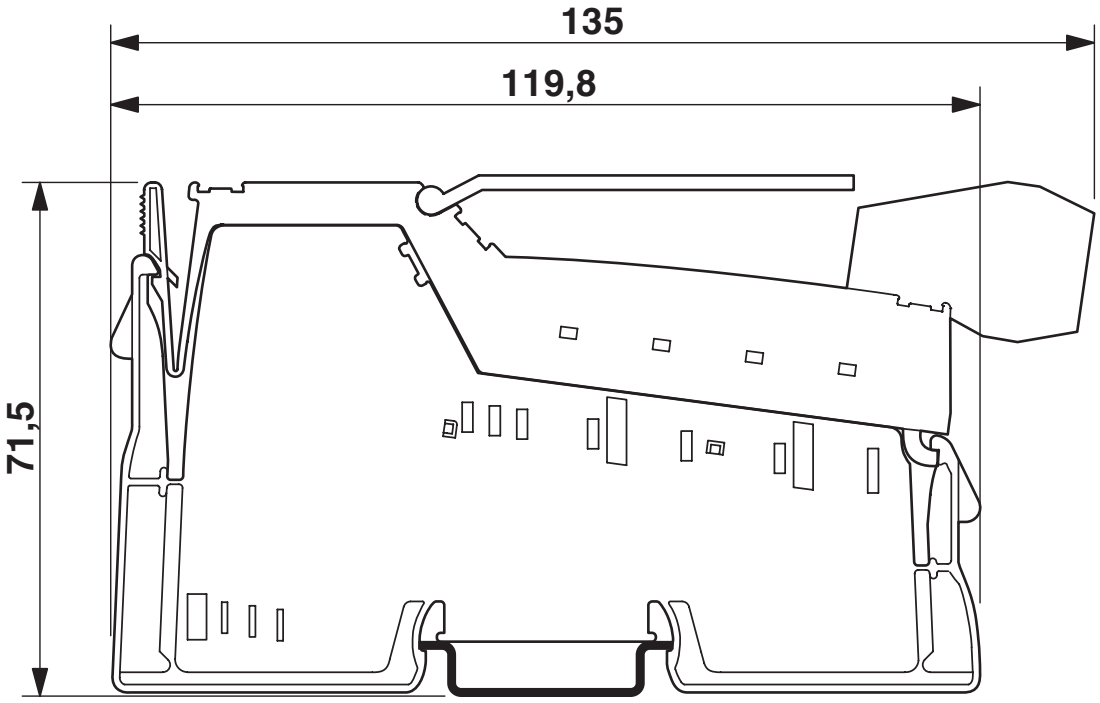
	under extreme ambient conditions” in the data sheet.)
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)

Standards and regulations

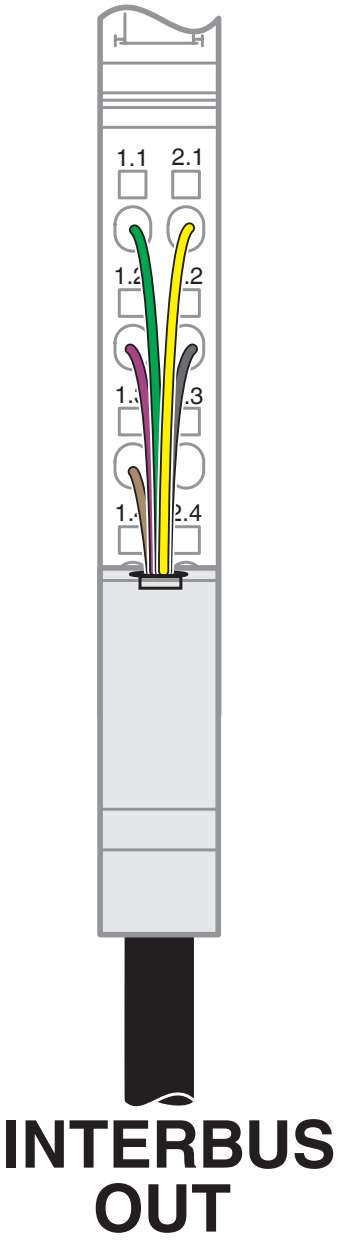
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Drawings

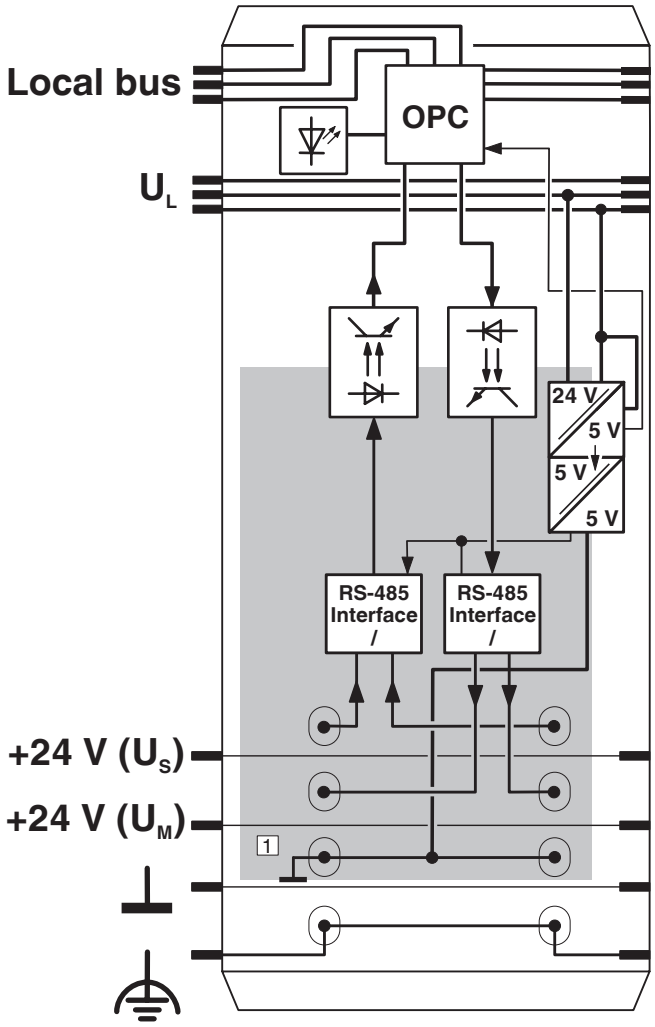
Dimensional drawing



Connection diagram



Block diagram



Internal wiring of the terminal points

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

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-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	2fb258db-37a7-47d3-90b5-8d66ba6b1731

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