

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



2861441

<https://www.phoenixcontact.com/us/products/2861441>

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

## Product description

The terminal is designed for use within an Inline station. It can be used to extend the INTERBUS network by additional system levels. A total of up to 15 levels can be operated in the network. **Note for use as a replacement item for IBS IL 24 RB-LK (item no. 2878117):** The item IBS IL 24 RB-LK is no longer in our product range. To achieve the same functionality, you can use a combination of an IBS IL 24 RB-T-PAC inline branch terminal (item no. 2861441) and a PSI-MOS-RS422/FO 660 E FO converter (item no. 2708342).

## Your advantages

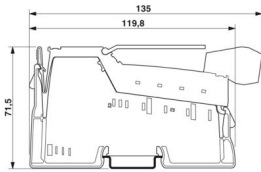
- Diagnostic and status indicators

## Commercial data

Item number	2861441
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI152
GTIN	4017918894375
Weight per piece (including packing)	87.8 g
Weight per piece (excluding packing)	67 g
Customs tariff number	85389099
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
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#### Utilization restriction

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

Color (Housing)	green (RAL 6021)
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### 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.)
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#### Programming data (LocalbusSlave)

2861441

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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

## Electrical properties

Maximum power dissipation for nominal condition	0.7 W
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### 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
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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)	-25 °C ... 55 °C
Degree of protection	IP20

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2861441

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

## Standards and regulations

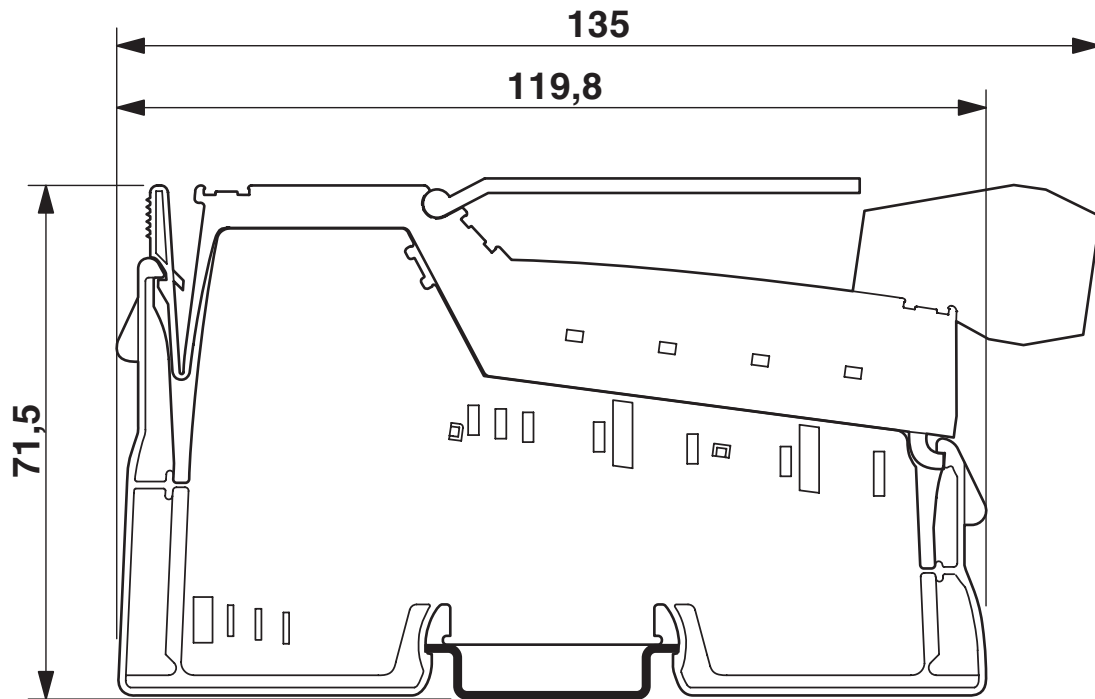
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	DIN rail mounting
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Drawings

Dimensional drawing



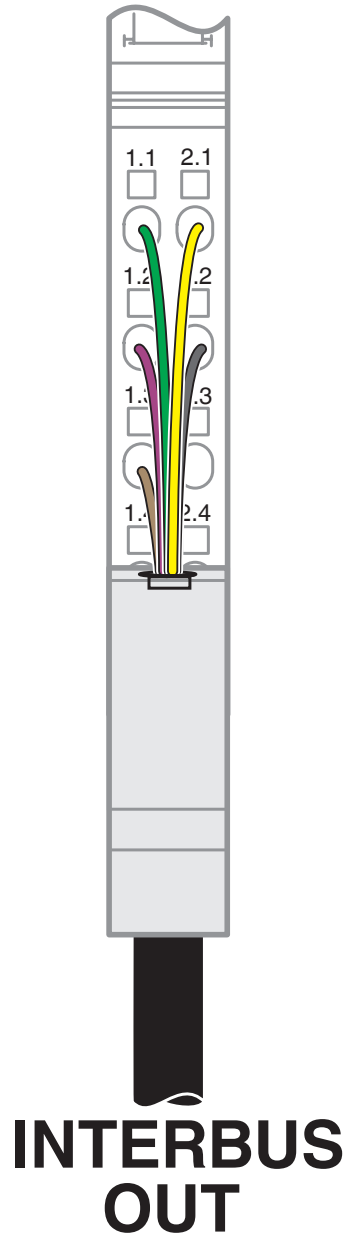
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2861441

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Connection diagram

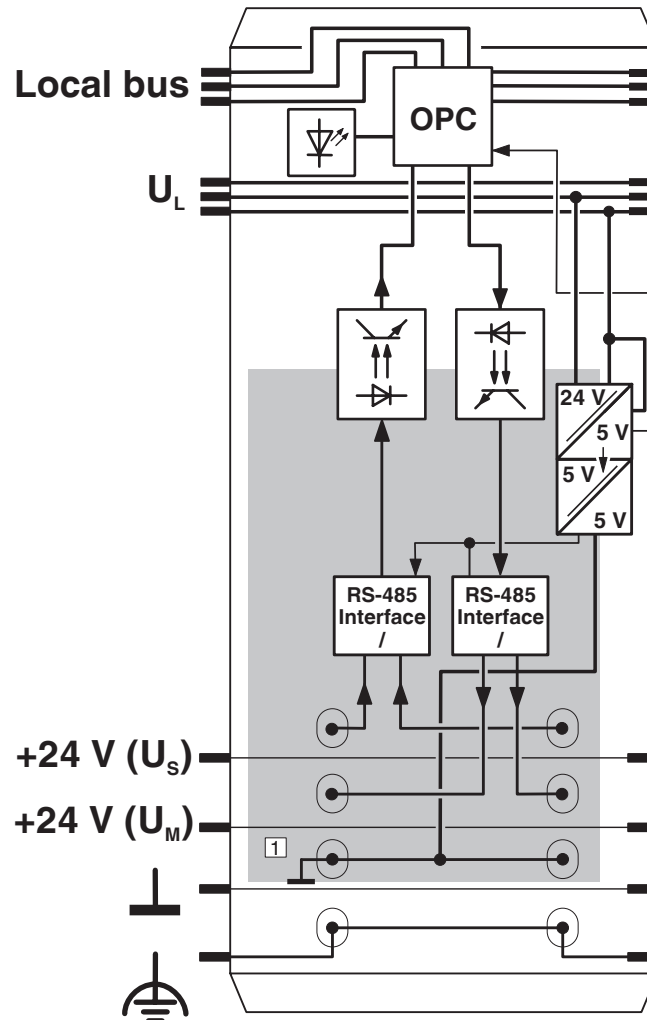


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Block diagram



Internal wiring of the terminal points

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2861441>



**DNV GL**

Approval ID: TAA00000BN



**BV**

Approval ID: 21594/C1 BV

**BSH**

Approval ID: 658a



**RINA**

Approval ID: ELE121121XG

**ABS**

Approval ID: 22-2226444-PDA



**cULus Recognized**

Approval ID: E140324



**cULus Listed**

Approval ID: E199827

2861441

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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(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)
SCIP	1d3485ca-31f6-4fa9-9e18-732c9651d319

### EF3.1 Climate Change

CO2e kg	2.741 kg CO2e
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