

IBS IL 24 RB-LK - Branch terminal



2878117

<https://www.phoenixcontact.com/us/products/2878117>

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INTERBUS FO branch terminal block, without accessories, with remote bus branch, 24 V DC



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 on replacement of the item:** 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).

Commercial data

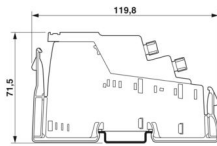
Item number	2878117
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI152
GTIN	4046356048477
Weight per piece (including packing)	123.6 g
Weight per piece (excluding packing)	89 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	24.4 mm
Height	119.8 mm
Depth	71.5 mm

Interfaces

Inline local bus

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

INTERBUS

Connection method	FSMA plugs
Transmission speed	500 kbps
Transmission physics	FO

System properties

Module

ID code (dec.)	04
ID code (hex)	04
Length code (hex)	0
Length code (dec)	0
Process data channel	0 bit
Input address area	0 Byte
Output address area	0 Byte
Register length	0 bit
Required parameter data	0 Byte
Required configuration data	0 Byte

Product properties

Product type	I/O component
Product family	Inline
Type	modular

Electrical properties

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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	max. 51 mA
	typ. 42 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus, electrically isolated from 5 V supply, outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, incoming remote bus, electrically isolated from 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply, 5 V logics supply branch terminal block	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, incoming remote bus, electrically isolated from 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus, electrically isolated from 5 V supply, incoming remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus, electrically isolated from 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply, 5 V logics supply branch terminal block	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus, electrically isolated from 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus, electrically isolated from functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply, 5 V logics supply branch terminal block, electrically isolated from 5 V supply incoming remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply, 5 V logics supply branch terminal block, electrically isolated from 5 V supply outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply, 5 V logics supply branch terminal block, electrically isolated from 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V communications power, 24 V analog supply, 24 V bus terminal module supply, 5 V communications power, bus branch terminal electrically isolated from functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply, electrically isolated from 5 V supply, incoming remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply, electrically isolated from 5 V supply, outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply, electrically isolated from 7.5 V logics supply, 24 V analog supply, 24 V bus terminal module supply, 5 V logics supply branch terminal block	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply, electrically isolated from the functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection method	FSMA plugs
Stripping length	8 mm

Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 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)	75 % (On average, 85 % occasionally)
Permissible humidity (storage/transport)	75 % (On average, 85 % occasionally)

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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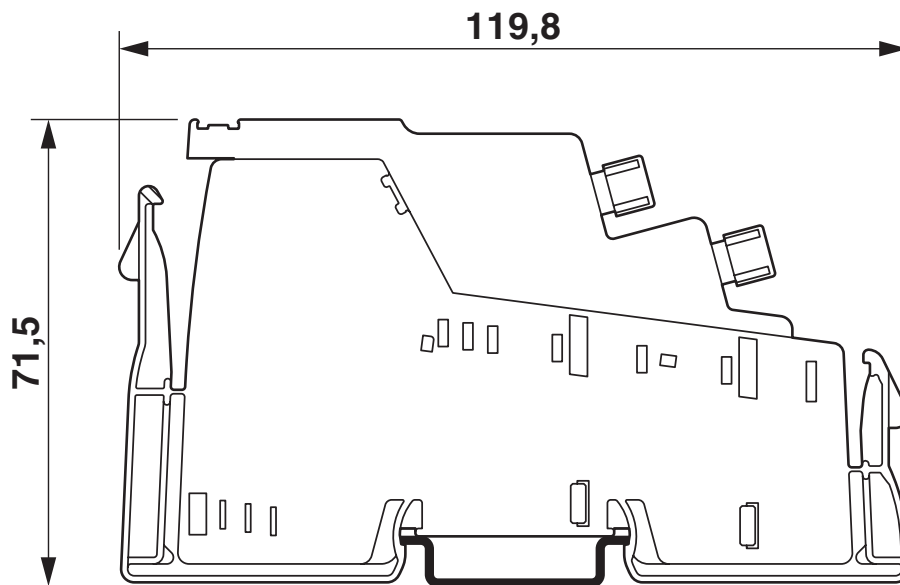
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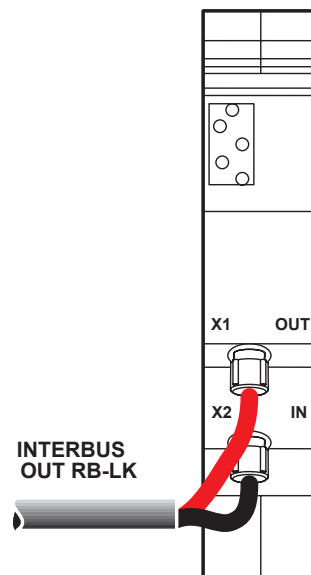
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Drawings

Dimensional drawing



Connection diagram



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Classifications

UNSPSC

UNSPSC 21.0	32151602
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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-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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