

IBS IL 24 RB-LK-2MBD - Communication module



2878159

<https://www.phoenixcontact.com/us/products/2878159>

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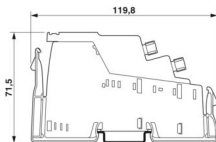
Inline, branch terminal, INTERBUS, F-SMA shield plug, with remote bus branch, transmission speed in the local bus: 2 Mbps, degree of protection: IP20, without accessories

Commercial data

Item number	2878159
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI152
GTIN	4046356048491
Weight per piece (including packing)	124 g
Weight per piece (excluding packing)	89 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	24.4 mm
Height	119.8 mm
Depth	71.5 mm

Notes

Note on application

Note on application	Only for industrial use
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Interfaces

INTERBUS

Connection method	Inline data jumper
Transmission speed	2 Mbps

INTERBUS

Connection method	FSMA plugs
Transmission speed	2 Mbps
Transmission physics	FO

Inline local bus

Connection method	Inline data jumper
Transmission speed	2 Mbps
Transmission physics	Copper

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

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Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	without accessories
Special properties	with remote bus branch

Electrical properties

Maximum power dissipation for nominal condition	1.15 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	max. 57 mA
	typ. 47 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

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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

Ambient conditions

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

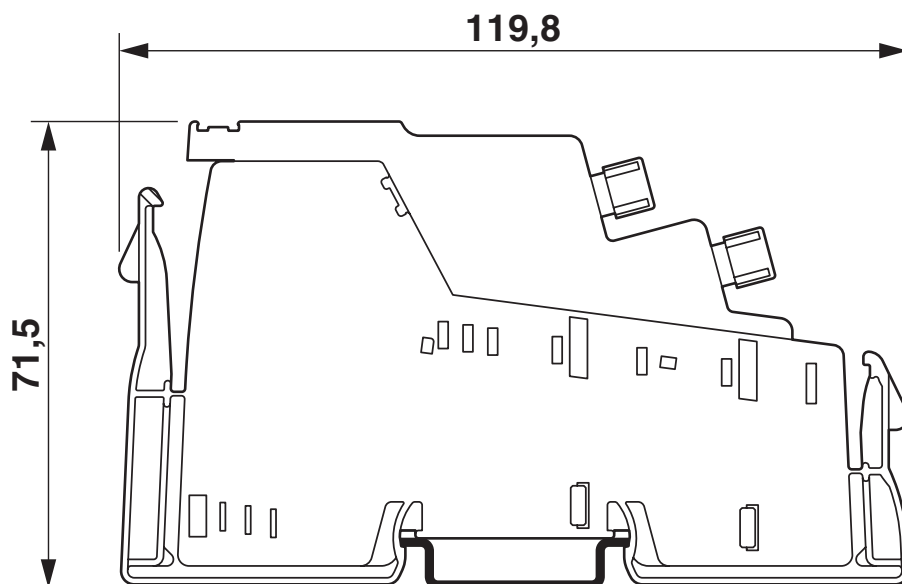
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

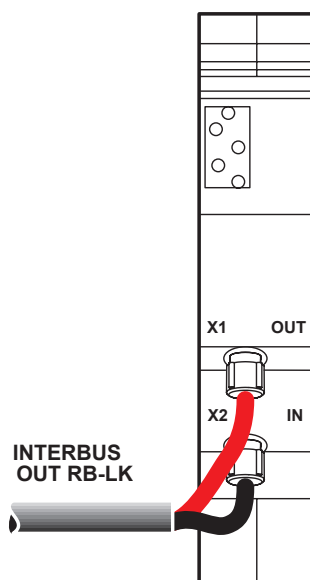
Mounting type	DIN rail mounting
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Drawings

Dimensional drawing



Connection diagram



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Approvals

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cULus Recognized
Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	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-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	4cde804a-095c-4d73-9767-a9eb2bef1d9f

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