

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



2878159

<https://www.phoenixcontact.com/pc/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

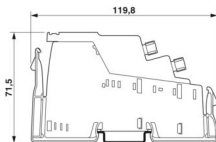
Item number	2878159
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI152
Catalog page	Page 249 (AX-2009)
GTIN	4046356048491
Weight per piece (including packing)	124 g
Weight per piece (excluding packing)	89 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Dimensions

Dimensional drawing	
Width	24.4 mm
Height	119.8 mm
Depth	71.5 mm

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 delivery	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

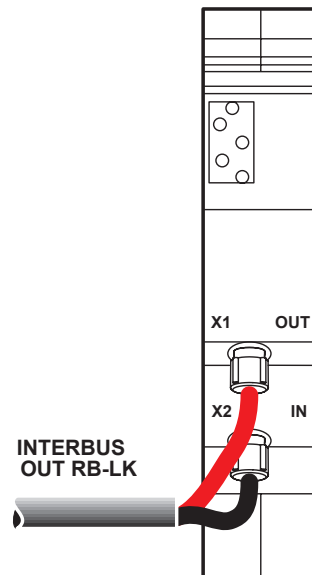
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

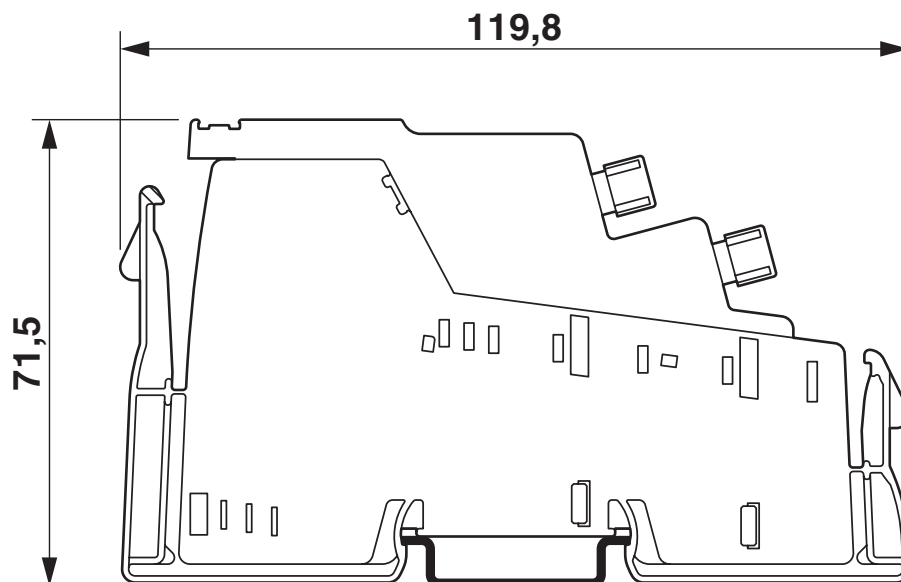
Mounting type	DIN rail mounting
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Drawings

Connection diagram



Dimensional drawing



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Approvals

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cULus Recognized

Approval ID: E140324

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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	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