

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



Product description

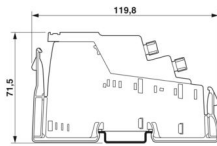
Inline terminals with "2 MBD" added to their item designation work with a transmission speed of 2 Mbps. These terminal blocks are discontinued or no longer in the range. If you require this transmission speed, please ask your local Phoenix Contact representative. If you can work with a transmission speed of 500 kbps, select as a replacement the corresponding variant that does not have "2MBD" added to its item designation. Please note that a uniform transmission speed must always be used within one inline station.

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 |
|---------------------|-------------------------|

Material specifications

| | |
|-----------------|------------------|
| Color (Housing) | green (RAL 6021) |
|-----------------|------------------|

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

Programming data (LocalbusSlave)

| | |
|-------------------------|--------|
| 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 |
|-----------------------|-------|

Fieldbus data telegram

| | |
|-----------------------------|--------|
| Required parameter data | 0 Byte |
| Required configuration data | 0 Byte |

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 |
|---|--------|

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 |

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| | |
|---|------------------------|
| 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

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

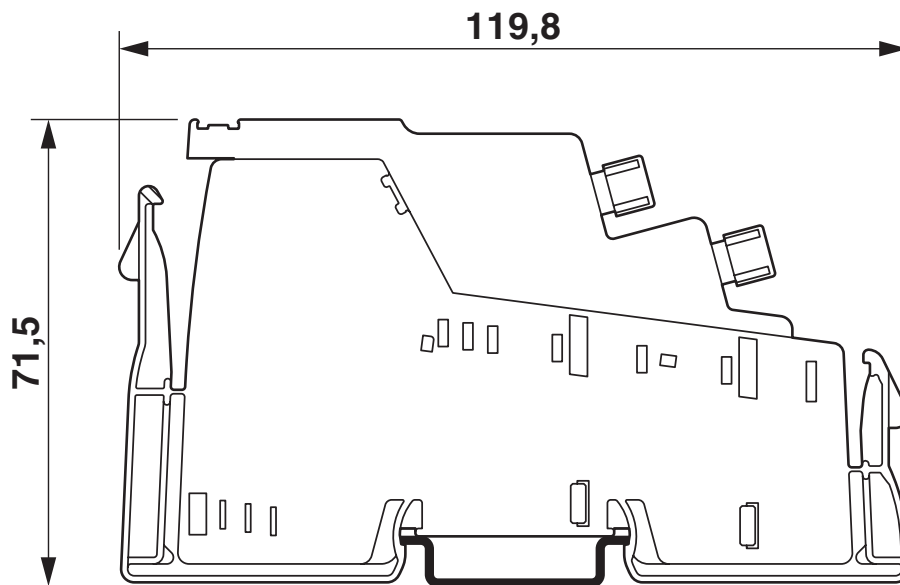
| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

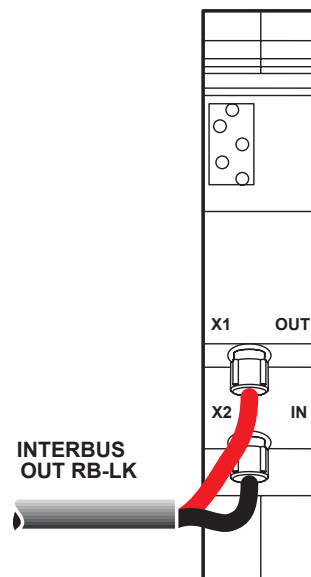
| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Drawings

Dimensional drawing



Connection diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2878159>



cULus Recognized
Approval ID: E140324

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242608 |
| ECLASS-15.0 | 27242608 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001604 |
|-----------|----------|

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 | 4cde804a-095c-4d73-9767-a9eb2bef1d9f |

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