

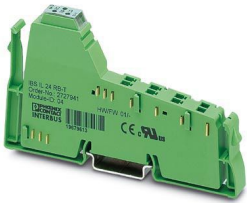
IBS IL 24 RB-T-2MBD - Branch terminal



2855127

<https://www.phoenixcontact.com/us/products/2855127>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



INTERBUS branch terminal block, without accessories, with remote bus branch, transmission speed 2 Mbaud, 24 V DC

The figure shows the version IBS IL 24 RB-T

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2855127 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | NULL |
| Product key | DRI152 |
| GTIN | 4017918901875 |
| Weight per piece (including packing) | 68.1 g |
| Weight per piece (excluding packing) | 53.79 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

Technical data

Product properties

| | |
|------|---------|
| Type | modular |
|------|---------|

System properties

Programming data

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

Electrical properties

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, 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 | 500 V AC, 50 Hz, 1 min |

IBS IL 24 RB-T-2MBD - Branch terminal



2855127

<https://www.phoenixcontact.com/us/products/2855127>

| | |
|---|------------------------|
| terminal module supply, 5 V logics supply branch terminal block, electrically isolated from 24 V main supply, 24 V segment supply | |
| 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

Inline connector

| | |
|-----------------------------------|--|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |

Interfaces

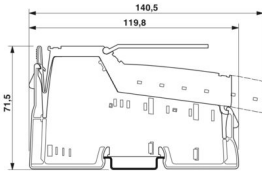
Inline local bus

| | |
|--------------------|--------------------|
| Connection method | Inline data jumper |
| Transmission speed | 2 Mbps |

INTERBUS

| | |
|----------------------|-------------------------|
| Connection method | Inline shield connector |
| Transmission speed | 2 Mbps |
| Transmission physics | RS-485 |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 12.2 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

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

IBS IL 24 RB-T-2MBD - Branch terminal



2855127

<https://www.phoenixcontact.com/us/products/2855127>

Drawings

Dimensional drawing



IBS IL 24 RB-T-2MBD - Branch terminal



2855127

<https://www.phoenixcontact.com/us/products/2855127>

Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | |
|-------------------------------------|--|
|-------------------------------------|--|

| | |
|--|----------------------------|
| | No substance above 0.1 wt% |
|--|----------------------------|

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com