# IB IL CAN-MA-PAC - Communication module

2700196

https://www.phoenixcontact.com/us/products/2700196

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Inline CAN master, for connecting a CAN bus system, complete with accessories (connector and marking field)

## Product description

The terminal is designed for use within an Inline station. It can be used to integrate a lower-level CAN bus system into the Inline station and therefore into the bus system used. Within the Inline station, the terminal acts as a CAN master for the lower-level CAN system.

## Your advantages

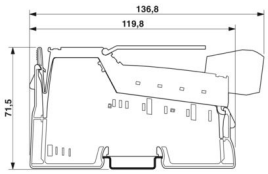
- Protocol: Transparent mode
- Transmission speed of CAN bus: 250 kbps
- Smallest data type: 1 byte
- Maximum data width of 2 x 64 bytes (= 128 bytes = 64 words)
- DIP switches for setting the data width

## Commercial data

| | |
|---|---|
| Item number | 2700196 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR01 |
| Product key | DRI153 |
| GTIN | 4046356497855 |
| Weight per piece (including packing) | 108.8 g |
| Weight per piece (excluding packing) | 75 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

## Technical data

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 12.2 mm |
| Height | 136.8 mm |
| Depth | 71.5 mm |

### Notes

Note on application

| | |
|---|---|
| Note on application | Only for industrial use |

### Material specifications

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

### Interfaces

Inline local bus

| | |
|---|---|
| Number of interfaces | 2 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |

CAN bus

| | |
|---|---|
| Number of interfaces | 1 |
| Connection method | Inline shield connector |
| Transmission speed | 250 kbps |
| Protocols supported | CAN |

S-PORT

| | |
|---|---|
| Number of interfaces | 1 (Interface with plugged in memory stick) |

### System properties

Local diagnostics

| | |
|---|---|
| Error messages via the bus | CAN bus voltage faulty |
| | Bus stop |

Programming data (LocalbusSlave)

| | |
|---|---|
| Length code (hex) | 20 |
| ID code (dec.) | 191 |

| | |
|---|---|
| Length code (dec) | 32 |
| Process data channel | 64 Byte (Default; configurable) |
| Input address area | max. 64 Byte |
| Output address area | max. 64 Byte |
| Parameter channel (PCP) | 0 Byte |
| Register length (bus) | max. 64 Byte |

Fieldbus data telegram

| | |
|---|---|
| Required parameter data | 1 Byte |
| Required configuration data | 5 Byte |

## Product properties

| | |
|---|---|
| Product type | I/O component |
| Product family | Inline |
| Type | modular |
| Scope of supply | including Inline connector and labeling field |
| Operating mode | Process data mode with up to 64 words |

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 1.15 W |
| Power dissipation | 0.9 W (Module) |

Potentials: Communications power ($U_L$)

| | |
|---|---|
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current draw | max. 115 mA |
| | typ. 110 mA |

Potentials: Main circuit supply ($U_M$)

| | |
|---|---|
| Supply voltage | 24 V DC (via voltage jumper) |
| Current draw | max. 12 mA |
| | typ. 10 mA |

Electrical isolation/isolation of the voltage ranges

| | |
|---|---|
| Test voltage: 24 V supply $U_M$, bus, logic/CAN interface | 500 V AC, 50 Hz, 1 min |
| Test voltage: 24 V supply $U_M$, bus, logic/functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: CAN interface/functional ground | 500 V AC, 50 Hz, 1 min |

## Connection data

Connection technology

| | |
|---|---|
| Connection name | Inline connector |

Inline connector

| | |
|---|---|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.08 mm² ... 1.5 mm² |
| Conductor cross-section, flexible | 0.08 mm² ... 1.5 mm² |
| Conductor cross-section AWG | 28 ... 16 |

| | |
|---|---|
| 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) | 70 kPa ... 106 kPa (up to 3000 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) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

## Standards and regulations

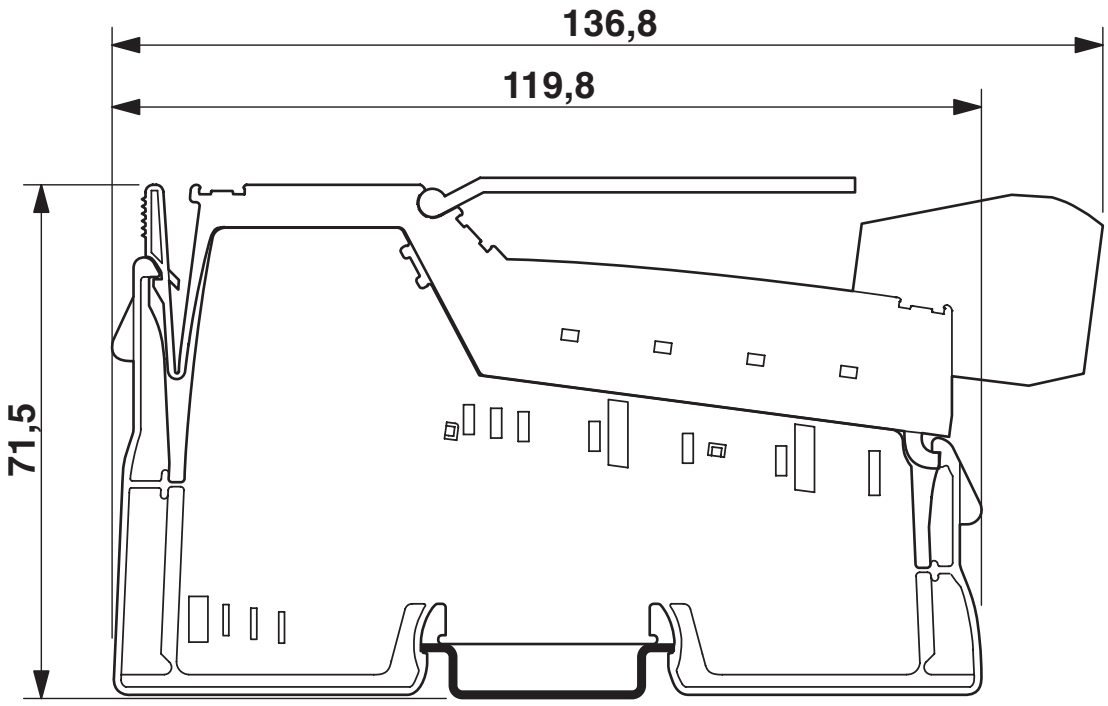
| | |
|---|---|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

## Mounting

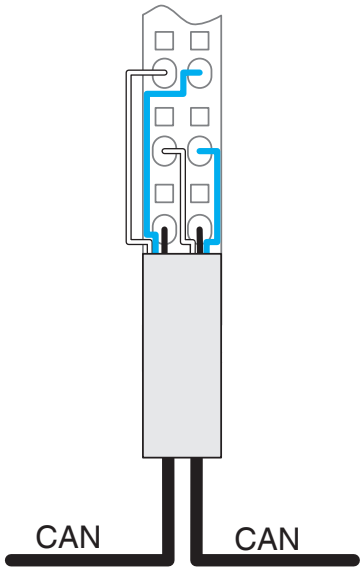
| | |
|---|---|
| Mounting type | DIN rail mounting |

## Drawings

Dimensional drawing

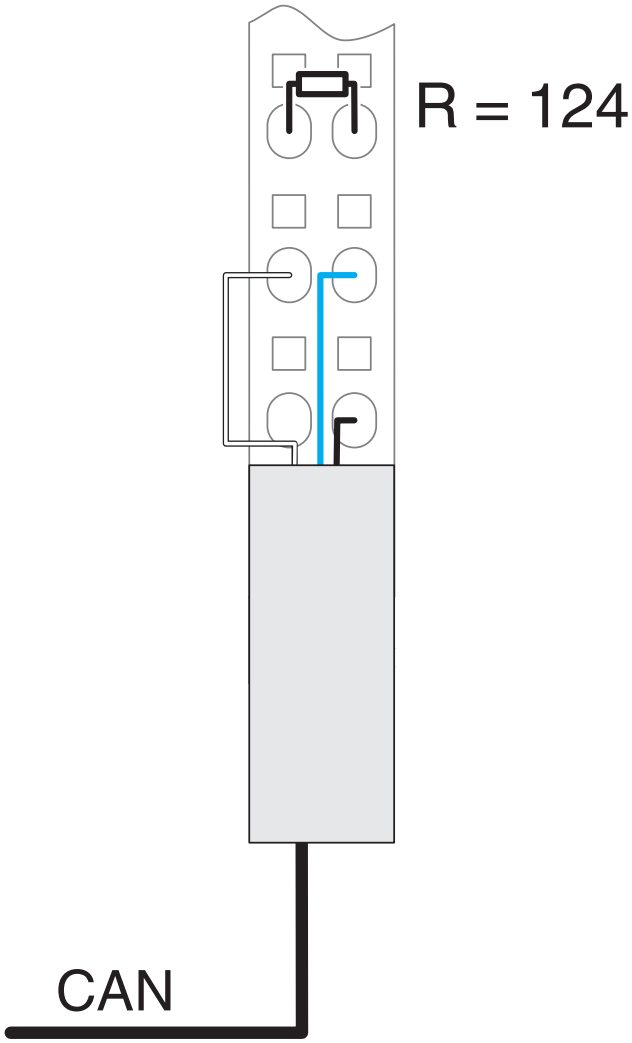



Connection diagram




CAN master in the center of a CAN bus when using the original connector

Connection diagram




CAN master at the end of a CAN bus
(R = 124 Ω termination resistor)

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2700196

**LR**
Approval ID: LR23398855TA

**BV**
Approval ID: 21595/C1 BV

**RINA**
Approval ID: ELE121121XG

**ABS**
Approval ID: 22-2226444-PDA

**DNV**
Approval ID: TAA00002CU

**cULus Listed**
Approval ID: E140324

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 32151600 |

## 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 | 14aef5f0-72ce-47c9-b641-67f1206b69ab |

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