

2700196

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

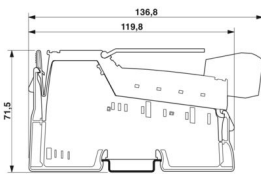
- Protocol: Transparent mode
- Transmission speed of CAN bus: 250 kbps
- Smallest data type: 1 byte
- Maximum data width of 2 x 64 bytes (= 128 bytes = 64 words)
- DIP switches for setting the data width

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2700196             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | DRI153              |
| Product key                          | DRI153              |
| Catalog page                         | Page 151 (C-6-2019) |
| GTIN                                 | 4046356497855       |
| Weight per piece (including packing) | 108.7 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 |
|---------------------|-------------------------|

### 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               |

#### Module

|                      |         |
|----------------------|---------|
| ID code (dec.)       | 191     |
| ID code (hex)        | BF      |
| Length code (hex)    | 20      |
| Length code (dec)    | 32      |
| Process data channel | 64 Byte |

|                             |              |
|-----------------------------|--------------|
| Input address area          | max. 64 Byte |
| Output address area         | max. 64 Byte |
| Register length             | 64 Byte      |
| 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<br>typ. 110 mA    |

### Potentials: Main circuit supply ( $U_M$ )

|                |                              |
|----------------|------------------------------|
| Supply voltage | 24 V DC (via voltage jumper) |
| Current draw   | max. 12 mA<br>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 |
|-----------------|------------------|

### Conductor connection

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection method                | Spring-cage connection                       |
| Conductor cross section rigid    | 0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 28 ... 16                                    |
| Stripping length                 | 8 mm                                         |

### Inline connector

|                                |                                              |
|--------------------------------|----------------------------------------------|
| Connection method              | Spring-cage connection                       |
| Conductor cross section, rigid | 0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |

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|                                   |                                              |
|-----------------------------------|----------------------------------------------|
| Conductor cross section, flexible | 0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 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

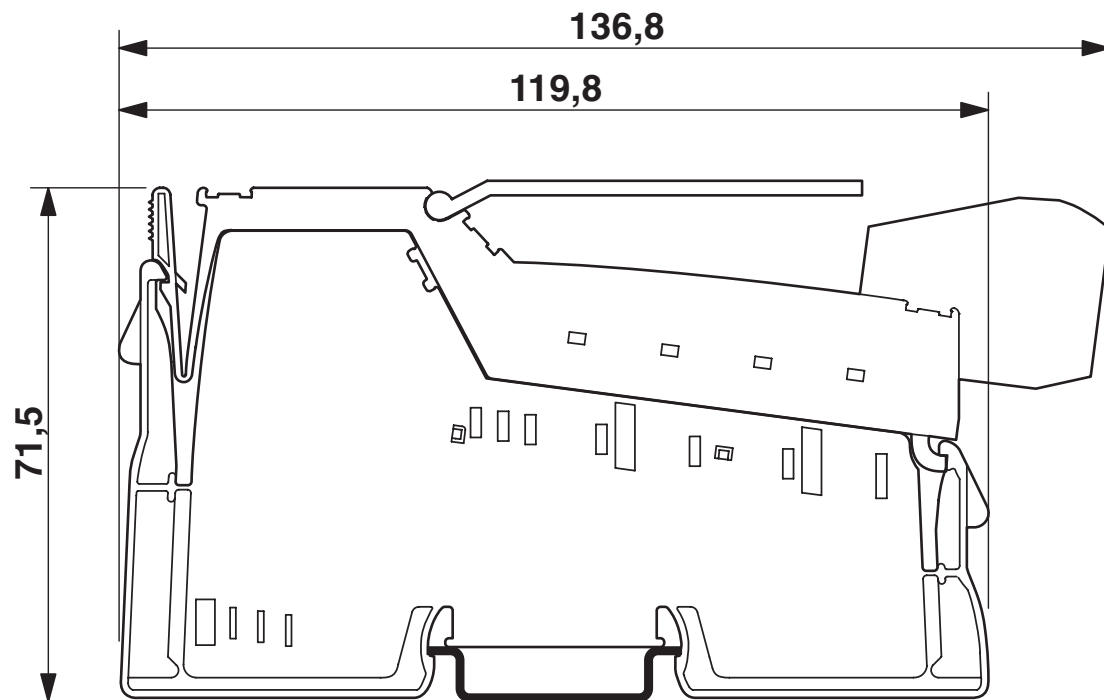
|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

## Mounting

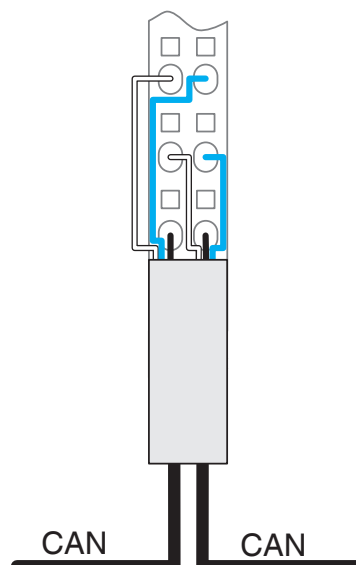
|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

## Drawings

Dimensional drawing

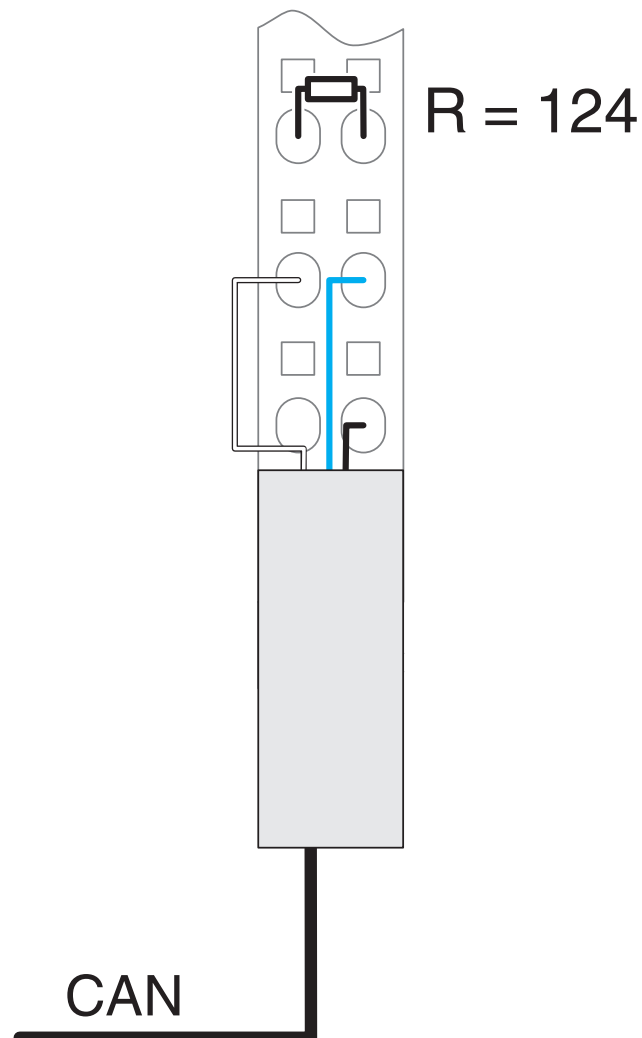


Connection diagram



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  $\Omega$  termination resistor)

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## Approvals

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



**EAC**

Approval ID: EAC-Zulassung



**LR**

Approval ID: LR23398855TA



**BV**

Approval ID: 21595/C0 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 |
|-------------|----------|

ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 14aef5f0-72ce-47c9-b641-67f1206b69ab |

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PHOENIX CONTACT PTY Ltd  
Unit 7, 2-8 South Street  
Rydalmere NSW 2116  
1300 786 411  
[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)