IB IL CAN-MA-PAC - Communication module

2700196

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

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CRA-READY



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

ELEKTROGERÄTE RÜCKNAHME

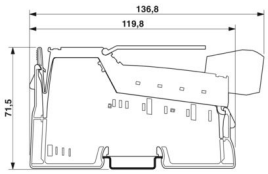
Commercial data

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	Only for industrial use
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Mounting

Mounting type	DIN rail mounting

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

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 (PROFIBUS)

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
Special properties	The product is being prepared for compliance with the Cyber Resilience Act (CRA)

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

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)

Mechanical test

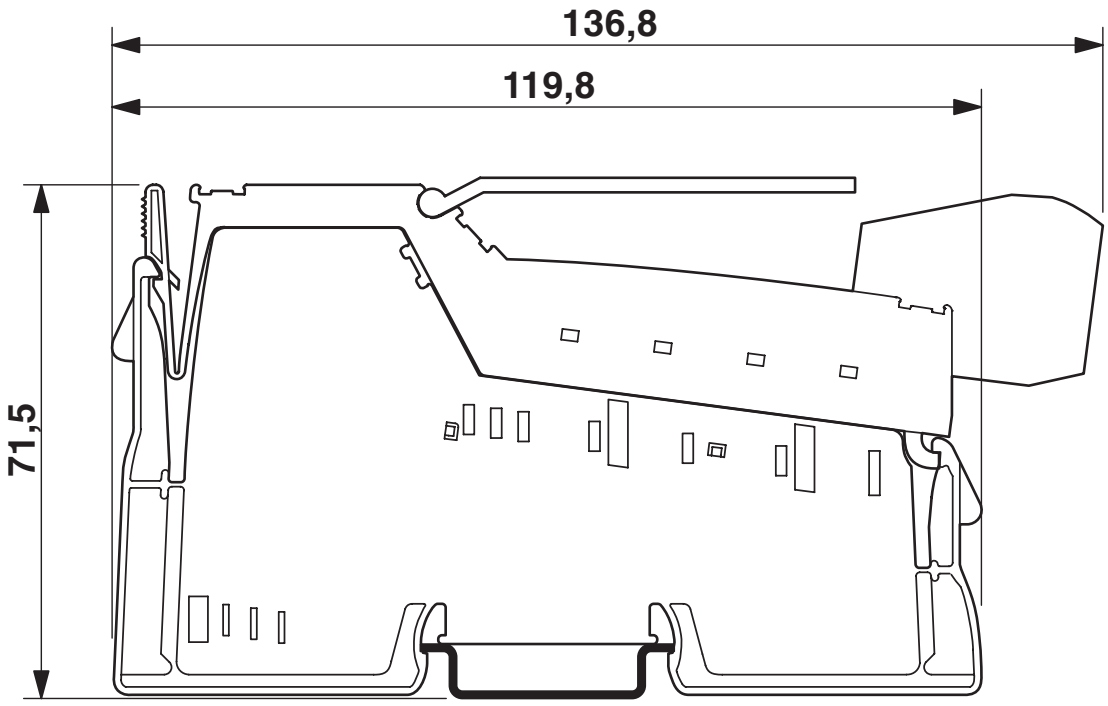
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g

Standards and regulations

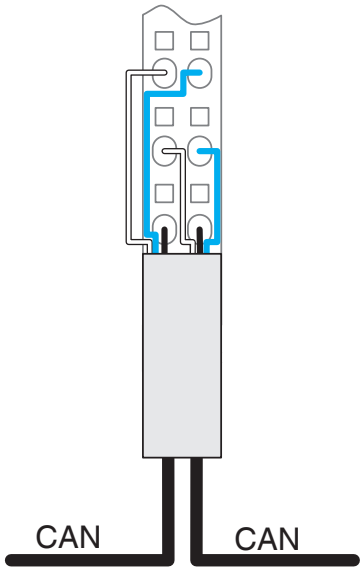
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Drawings

Dimensional drawing

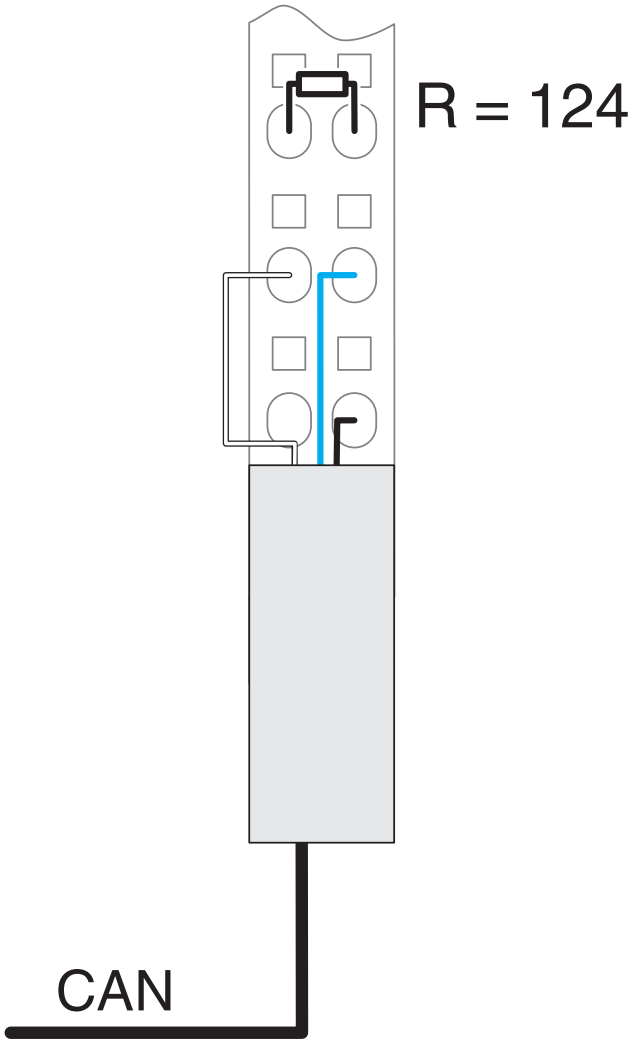


Connection diagram



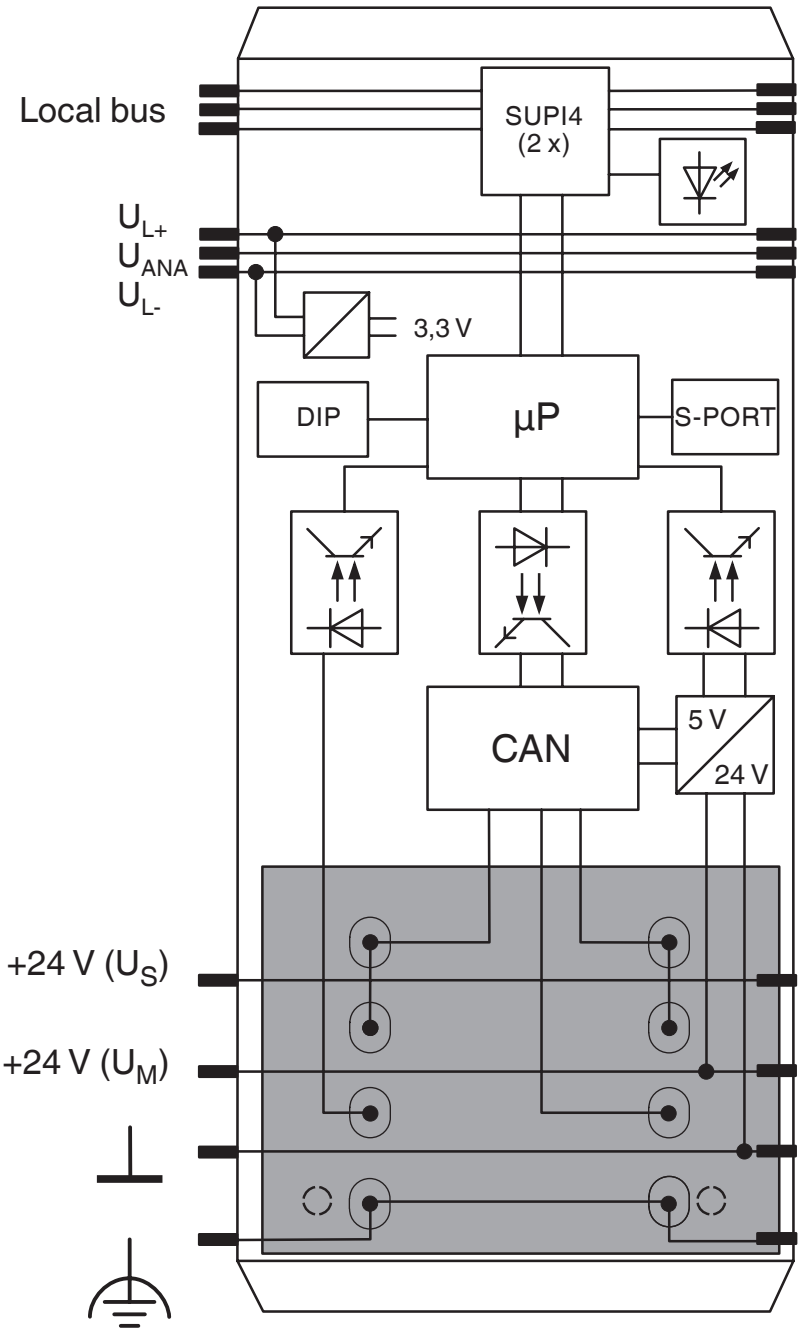
CAN master in the center of a CAN bus when using the original connector

Connection diagram



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

Block diagram



Internal wiring of the terminal points

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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https://www.phoenixcontact.com

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