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PHŒNIX CONTACT

Inline function terminal - IB IL CAN-MA-PAC - 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 thus in the bus system used.
Within the Inline station, the terminal acts as a CAN master for the lower-level CAN system.
CAN features
– CAN master
- Protocol: Transparent mode
– Transmission speed: 1 Mbps, maximum
– Smallest data type: 1 byte
– Diagnostic and error messages are exchanged via the status word
Local bus features
– Transmission speed: 500 kbps
– Maximum data width of 2 x 64 bytes (i.e., 128 bytes = 64 words)
– Data channel width: 126 bytes
– Command/status word width: 2 bytes
General features
– Serial interface with inserted memory stick for storing the configuration data
– DIP switch for setting the data width
– Local diagnostic and status indicators

Product Features

☑ User-friendly controller-independent software tool for configuring the CAN network

☑ Serial interface (S port) including a memory stick for saving the configuration

☑ Transparent mode

☑ CAN 2.0A (11-bit identifier; standard frame)

☑ CAN 2.0B (29-bit identifier; extended frame)

☑ Transmission speed of 10 kbps to 1 Mbps

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	100.0 GRM
Custom tariff number	85389091

Inline function terminal - IB IL CAN-MA-PAC - 2700196

Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	12.2 mm
Height	136.8 mm
Depth	71.5 mm

General

Color	green
Weight	75 g
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
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)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Interfaces

Interface	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Interface	CAN bus
Connection method	Inline shield connector
Protocols supported	CAN

Inline potentials

Communications power U_L	7.5 V (via voltage jumper)
Current consumption from U_L	typ. 110 mA
	max. 115 mA
Main circuit supply U_M	24 V DC (via voltage jumper)
Current consumption from U_M	typ. 10 mA
	max. 12 mA

Electrical isolation

Inline function terminal - IB IL CAN-MA-PAC - 2700196

Technical data

Electrical isolation

Test section	24 V supply U_M, bus, logic/CAN interface 500 V AC 50 Hz 1 min
	24 V supply U_M, bus, logic/functional earth ground 500 V AC 50 Hz 1 min
	CAN interface/functional earth ground 500 V AC 50 Hz 1 min

Classifications

eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250304
eCl@ss 5.0	27250304
eCl@ss 5.1	27242605
eCl@ss 6.0	27242605
eCl@ss 7.0	27242605
eCl@ss 8.0	27242608

ETIM

ETIM 3.0	EC001601
ETIM 4.0	EC001601
ETIM 5.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

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UL Listed / cUL Listed / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / GL / cULus Listed

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Ex Approvals

Inline function terminal - IB IL CAN-MA-PAC - 2700196

Approvals

Approvals submitted

Approval details

UL Listed

cUL Listed
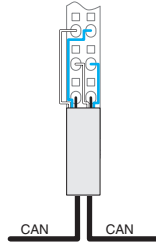
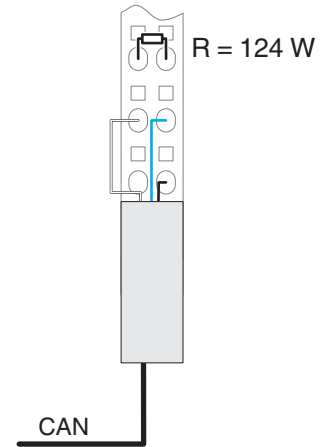LR

GL

BV

DNV

ABS

RINA

GL-SW

BSH

GL

cULus Listed

Drawings

Inline function terminal - IB IL CAN-MA-PAC - 2700196

Connection diagram

CAN   CAN

CAN master in the center of a CAN bus

Connection diagram

R = 124 W

CAN

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

Dimensioned drawing

136,8

119,8

71,5

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