

TEZ-C01

CAN-bus Interface connectors

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Data sheet

Item	Contents
Terms	TEZ-C01, CAN-bus interface connector
Abstract	The TEZ-C01 series has been specifically designed for use in CAN-bus systems up to 1 Mbps. It enables quick and convenient connection of the incoming and outgoing bus cable under field conditions.



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TEZ-C01 CAN-bus Interface Connectors

Descriptions

The TEZ-C01 series has been specifically designed for use in CAN-bus systems up to 1 Mbps. It enables quick and convenient connection of the incoming and outgoing bus cable under field conditions. This type of connector is a suitable solution for following applications:

- Fast connecting a CAN-bus node to the CAN-bus network
- Two end nodes of the CAN-bus network, work as a terminating node
- Intermediate nodes, work as a 3-way connector

The termination resistor is already integrated in all versions and can be enabled externally using a slide switch. The outgoing bus segment is disabled simultaneously. This makes it easier to start up segment by segment and prevents incorrect termination. In addition to this, the high-quality shielded connector housing also ensures high levels of immunity to interference even at maximum transmission speed. A special feature of the angled connector version is that the internal connection unit can be reversed. This enables you to decide in the field whether the cable is to be fed from the right or the left. If it is not possible to use the angled version, the TERZ-C01 compact connector with a straight cable feed is available.

The connectors are designed for all standard CAN-bus cables in accordance with CiA Draft Recommendation 303-1 with an outside diameter of 8 mm. It also can support twisted cable without shield with some accessories.

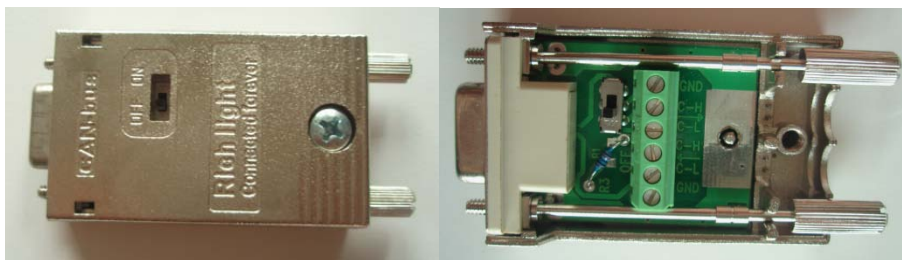


Figure 1: Picture of Product

Function Block Diagram

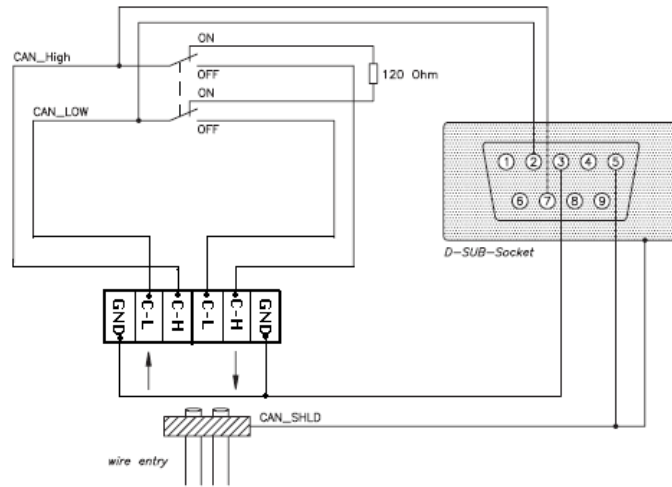


Figure 2: Function Block Diagram

Dimensions

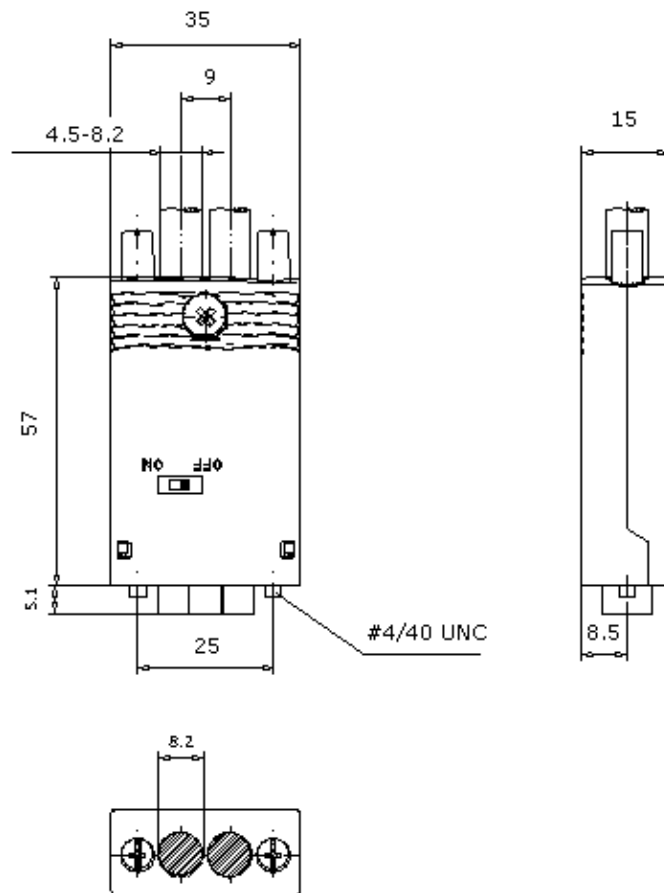


Figure 3: Dimensions of the product

Technical Data

Connector:	9-pos. D-SUB female connector
Cable feed:	Straight
Conductor	cross-section (screw terminal blocks)
Solid:	0.14m m ² to 1.5m m ²
Stranded:	0.14 m m ² to 1 m m ²
Connector cycles	> 200
Cable diameter:	4.5mm(0.177")- 8 mm(0.315")
Data transmission rate:	According to CAN specification, max. 1Mbit/s
Temperature range:	-20 °C to +75 °C
Degree of protection:	IP40
Housing material:	ZnAl, galvanized
Termination resistors:	120 Ω, can be enabled externally

Pin assignment

Terminal	D-Sub pin	Signal
1,6	3,6	CAN-GND
2,4	2	CAN-L
3,5	7	CAN-H
Shielding on housing	5	CAN-SHIELD

Elements

- 1 Upper housing part
- 2 Connection block
- 3 Slide switch
- 4 Mounting screws
- 5 Lower housing part
- 6 Strain relief for cable (bigger, smaller, blind)
- 7 Housing screws
- 8 Plastic sleeve

Connection

- Strip the wires according to Figure 1.
- Unfasten the housing screws and remove the upper housing part.
- Screw the stripped wires into the corresponding contacts of the connection block.
- Always connect the incoming bus cable (BUS IN) to the connection points CAN-H/CAN-L (even at the start of the bus system!).
- Always connect the outgoing bus cable (BUS OUT) to the connection points CAN-H/CAN-L.
- In case of twisted cable without shield, use plastic sleeve as a gasket, don't connect GND.
- Finally, mount and screw on the upper housing part, the strain relief for the bus cable is thus established.

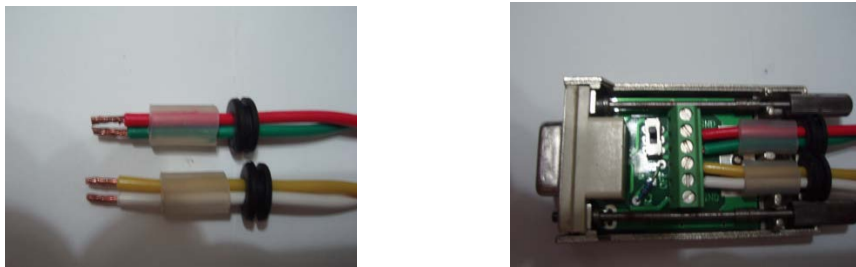


Figure 4:Connections

Suitable applications

- CAN-bus network that using Shielded Twisted Pair cables as communication media;
- CAN-bus network that using ordinary Twisted Pair cables as communication media;
- Use as CAN-bus end nodes (termination resistor slide switch at ON position);
- Use as CAN-bus intermediate nodes (termination resistor slide switch at OFF position).



Figure 5: Supported communication media

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