

# CANmp Option

## Interface description

### Controller Area Network – multi-protocols

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**Installation location:**

The interface is built into the rear side of the device. It can be installed on delivery. The device has to be sent back for retrofitting.

**Combination with other interfaces**

- Standard connection  
Point to point connection.
- Network topology  
It is possible to connect 32 bus members in the bus chain.  
In case of distance reduction and transfer rate reduction more bus members are possible. The bus ends has to be terminated.

**Technical characteristics**

Type: designed as D-Sub socket, 9 pin male

Interface standard: ISO 11898; Layer 1 and 2  
in the ISO/OSI layer model

### Example of TopCon devices in a bus chain

The CANmp interface X115 of the previous TopCon device is connected to the CANmp interface X114 of the following TopCon device. The last CANmp interface X115 in the chain has to be terminated.



Fig. 1 CANmp bus chain between TopCon devices and termination.

### Cable connection between bus members

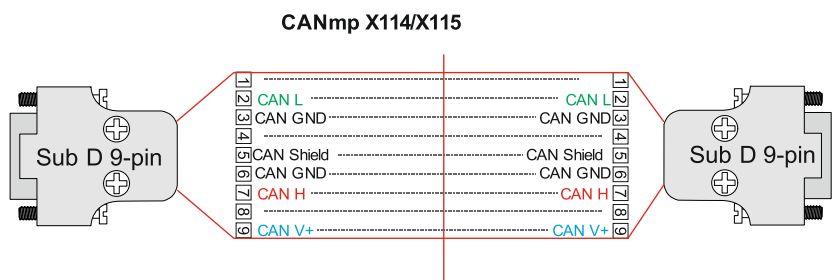


Fig. 2 Connection between bus members.

### Terminator connection

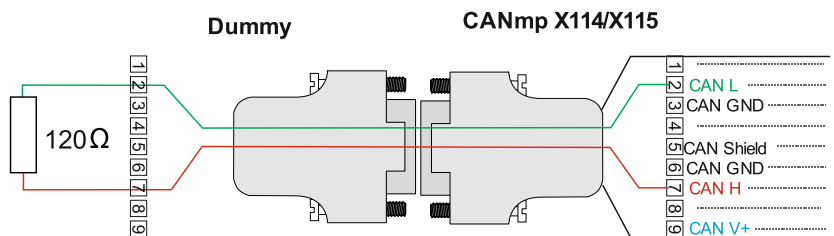


Fig. 3 The 120 Ω terminator resistance is connected between the pins CAN L and CAN H of the CANmp interface.

Pins of the Interface

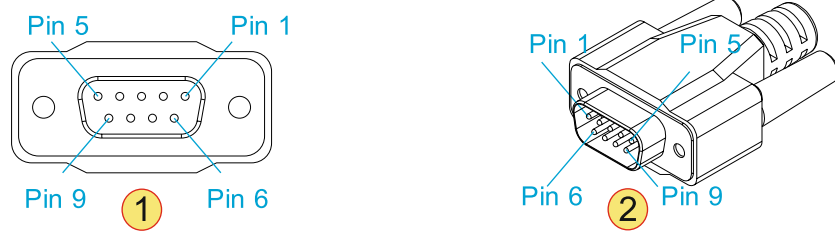


Fig. 4 D-Sub 9 Pin: female -1- and male -2-

CANmp interface			
Pin	Signal	I/O	Description
1	---	I/O	n.c. <sup>1)</sup>
2	CAN L	I/O	Signal: Dominant Low, see
3	CAN GND	O	Common ground
4	---	---	n.c. <sup>1)</sup>
5	CAN SHLD	---	High resistance connection to common ground. It is connectable via a jumper.
6	CAN GND	---	n.c. <sup>1)</sup>
7	CAN H	I/O	Signal: Dominant High, see
8	---	O	n.c. <sup>1)</sup>
9	CAN V+	---	n.c. <sup>1)</sup>
	Shield		Connected to earth

Tab. 1 Interface pins  
<sup>1)</sup> The signal will be looped through.

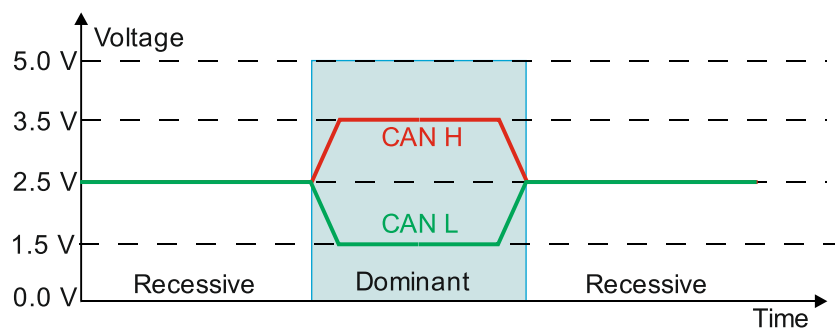


Fig. 5 CAN signal construction.