

CANbridge

Function

The **CANbridge X2** makes it possible to connect two CAN networks of the same type or of different types. It can be used as a message repeater to expand network distances as well as to connect different CAN networks together (regardless of protocol and speed). With the CANbridge X2, the CAN networks are physically decoupled (electrical isolation) and the bus load is reduced on both CAN networks. The integrated diagnostics by LED is used for the easy troubleshooting of the respective channel.

For more complex applications, the supplied CANbridge X2 parameterization software can be used to flexibly adjust the filtering and forwarding of CAN telegrams.

Technical data

- Dimensions (D x W x H): 74 x 75 x 31 mm
- Weight: Approx. 130 g
- Power supply: 18 - 30 V DC
- Current draw: Typ. 35 mA | Max. 60 mA
- Ambient temperature: -25 °C to +60 °C
- Storage temperature: -25 °C to +75 °C
- Transmission rate: 10 kbit/s to 1 Mbit/s
- Protocol: CAN 2.0A (11 Bit)
CAN 2.0B (29 Bit)
CANopen®
SAE J1939
DeviceNet
- Connection: 2 x connector, SUB-D, 9-pin
Mini USB socket (type 1.1)

Cable length

The maximum cable length mainly depends on the baud rate used. The stated cable lengths are for reference only. In addition, the maximum cable length depends on the number of devices connected, and on the cable type.

Bit rate	Bus length
1 Mbit/s	30 m
800 kbit/s	50 m
500 kbit/s	100 m
250 kbit/s	250 m
125 kbit/s	500 m
20 kbit/s	2500 m

Rotary switch

The two ten-position rotary switches on the front panel are used to set the CAN baud rate.

Switch position	0	1	2	3	4	5	6	7	8	9
Baud rate	Auto	-	20 k	50 k	100 k	125 k	250 k	500 k	800 k	1 M

LED

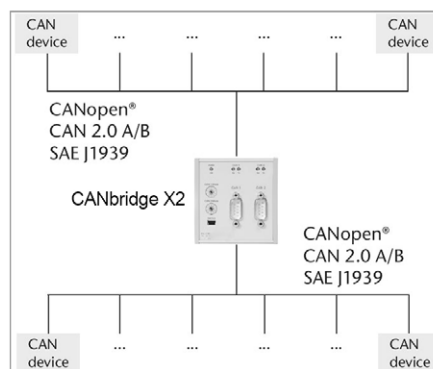
The front LEDs provide information on the operating state.

PWR	RX	TX	Description
•	x	x	Power supply of assembly is ok and operating system is running
☼	x	x	Assembly is not parameterised
•	☼	x	Incoming communication is correct
•	☼	x	Incoming communication is faulty
•	x	☼	Outgoing communication is correct
•	x	☼	Outgoing communication is faulty

an: • aus: ○ blinkend: ☼ nicht relevant: x



CANbridge X2



Example of application

Ordering details

CANbridge X2

Art. No.

119040005