

CAN-CR100

CAN / CAN FD repeater with screw terminals

The CAN-CR100 is used for galvanic isolation of two segments of a CAN / CAN FD network. As a special feature, the repeater separates a defective segment from the rest of the network, allowing the remaining network to continue working. After the fault has been eliminated, the segment is automatically switched back to the network. The galvanic isolation is provided for the CAN / CAN FD segments as well as for the power supply.



FEATURES AND BENEFITS

- CAN and CAN FD interfaces in one device
- Cost savings due to simple wiring
- Increased system reliability
- Almost no influence on real-time behavior

CONTENTS OF DELIVERY

- CAN-CR100
- User manual

TECHNICAL SPECIFICATIONS

Display	Transmit and defective segment (two duo LEDs, one for each segment), Power (one LED)
CAN bus interface	ISO 11898-2 with CAN choke. Two screw terminals. Available with and without integrated CAN termination.
CAN bitrates	Up to 1 Mbit/s
CAN FD interface	ISO CAN FD and nonISO CAN FD
CAN FD bitrates	Arbitration rate up to 1000 kBit/s, data rate up to 8000 kbit/s. The data rates are verified by tests. User-defined bit rates are possible. Attention: The maximum data rate can be exceeded depending on the concrete operating conditions (cable length, settings made, remote stations,...), but it can also not be reached.
Delay	typ. 175 ns (corresponds to ~35 m bus length)
Power supply	9–36 V DC, typ. 70 mA, max. 100 mA, through terminals
Galvanic isolation	1 kV DC / 1 sec, 500 V AC / 1 min; CAN 1, CAN 2 and power supply are galvanically isolated from each other.
Certification	CE, FCC
Temperature range	–20 °C ... +70 °C
Housing, size	Plastic enclosure, 22.5 x 105 x 114 mm

Order number

1.01.0210.20000	CAN-CR100, with bus termination resistors
1.01.0210.20200	CAN-CR100, without bus termination resistors