CAN-CR220

ISO 11898-2 CAN repeater
with 4 kV galvanic isolation

The CAN-CR220 is used for the galvanic isolation of two segments of a CAN network and offers a very high galvanic isolation of 4 kV, allowing it be utilized in medical applications. One special feature of the Repeater is the automatic recognition and separation of a defective segment from the rest of the network so that the remaining network can continue working. After elimination of the defect, the segment is switched into the network again.

The galvanic isolation isolates the CAN segments from each other as well as from the power supply.

The CAN-CR220 is tested according DIN/EN 50178 (DIN VDE 0160: 1988-05 and DIN VDE 0160/A1: 1989-04).

FEATURES AND BENEFITS

- Line protection up to 4 kV
- DIN/EN 50178 (DIN VDE 0160: 1988-05 and DIN VDE 0160/A1: 1989-04)
- Cost savings due to simple wiring
- Increased system reliability
- Almost no influence on real-time behavior

CONTENTS OF DELIVERY

- CAN-CR220
- Quick reference

TECHNICAL SPECIFICATIONS

Display	Transmit and defective segment (two duo LEDs), Power (one LED)
CAN bus interface	ISO 11898-2 with CAN choke. Two Sub-D9 connectors. CAN termination resistors are integrated (switchable).
Baudrate	Up to 1 Mbit/s
Delay	200 ns (corresponds ~40 m (~120ft.) bus length)
Power supply	9-32 V DC, 1.5 W typ., through terminals
Galvanic isolation	CAN 1, CAN 2 and power supply are galvanic isolated against each other. Isolation voltage 1.01.0067.44400 - 2.0 kV AC / 1 min - 3.2 kV DC / 1 min

	- 3.5 kV AC / 1 sec - 4 kV DC / 1 sec Isolation voltage 1.01.0067.44300 - 3 kV AC / 3 min - 3.75 kV AC / 1 min - 4 kV DC / 1 min - 4 kV AC / 1 sec - 4 kV DC / 1 sec
Certification	CE, FCC
Temperature range	-20 ºC ... +70 ºC
Housing, size	Plastic enclosure, 22.5 x 100 x 115 mm

Order number

1.01.0067.44400	CAN-CR220 (see technical data - galvanic isolation)
1.01.0067.44300	CAN-CR220 (see technical data - galvanic isolation)