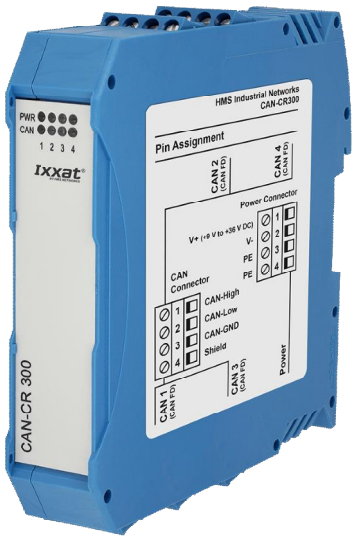
CAN-CR300

CAN / CAN FD repeater with screw terminals and 4 channels



The CAN-CR300 is used for galvanic isolation of CAN / CAN FD network segments and to design tree or star topologies. 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
- 4 x CAN / CAN FD
- Cost savings due to simple wiring
- Increased system reliability
- Almost no influence on real-time behavior

Technical specifications

Display	Transmit and defective segment (four 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 baudrate	Up to 1 Mbit/s
CAN FD bus interface	ISO CAN FD and nonISO CAN FD
CAN FD baudrate	500 kbit/s (arbitration bitrate) and up to 4 Mbit/s (flexible data rate)
Delay	typ. 175 ns (corresponds to ~35 m bus length)
Power supply	9-36 V DC, typ. 90 mA, max. 125 mA, through terminals
Galvanic isolation	1 kV DC / 1 sec, 500 V AC / 1 min; All CAN channels and power supply are galvanically isolated from each other.
Certification	CE, FCC
Temperature range	-20 ºC ... +70 ºC
Housing, size	Plastic enclosure, 22.5 x 105 x 114 mm