CAN-CR210/FO

Stackable converter from
ISO 11898-2 to fiber optic cable

The CAN-CR210/FO is used for the conversion of the CAN signal from copper wire (ISO 11898-2) to fiber optic cables. This provides a complete isolation and protection against EM-influences.

For creating star or tree topologies, several CAN-CR210/FO can be connected to a CAN-hub via the integrated backbone bus (also in conjunction with CAN-CR200).
One special feature of the repeater is, that it separates 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.

FEATURES AND BENEFITS

- DIN-Rail backbone bus to line up and connect the devices easily
- Fiber optic enables transmission in areas with high electromagnetic disturbances
- Increased system reliability
- Almost no influence on real-time behavior

CONTENTS OF DELIVERY

- CAN-CR210/FO
- Quick reference

ACCESSORIES (NOT INCLUDED)

- T bus connector for creating star / tree topologies

TECHNICAL SPECIFICATIONS

Display	Transmit and defective segment (three duo LEDs), Power (one LED)
CAN bus interface	ISO 11898-2, Sub-D9 connector. CAN termination resistors are integrated (switchable). Integrated backbone bus.
FOC connection	2 x F-SMA or ST terminal for duplex line (multi-mode glass 50/125 µm, 62.5/125 µm duplex)
Baudrate	Up to 1 Mbit/s
Delay	~300 ns (translates into ~60 m (~90ft.) bus length) between the wire connection of a FO Repeater through the fiber optic cable to the wire connection of a second FO Repeater (not including the signal delay time of the fiber optics, which is ~5 ns/m)
Power supply	9-35 V DC, 1.5 W typ., through terminals
Galvanic isolation	1 kV, 1 sec.; CAN 1
Certification	CE, FCC
Temperature range	-20 °C ... +70 °C
Housing, size	Plastic enclosure, 22.5 x 100 x 115 mm (without FO connector)

Order number

1.01.0068.45010	CAN-CR210/FO - Glass fiber version with F-SMA connector
1.01.0068.46010	CAN-CR210/FO - Glass fiber version with ST connector
1.04.0073.00000	T bus connector