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CAN-CR110/FO

CAN / CAN FD repeater with screw terminals and fiber optic connector

The CAN-CR110/FO 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

- Fiber optic enables transmission in areas with high electromagnetic disturbances
- 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-CR110/FO
- 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. CAN variant available with and without integrated CAN termination.	
CAN bitrates	Up to 1 Mbit/s	
CAN FD bus 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. 300 ns (corresponds to \sim 60 m 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 \sim 5 ns/m)	
FO transmitter	Broadcom HFBR 1404Z, 820 nm	

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FO receiver	Broadcom HFBR 2402Z, 820 nm
FO line	F-SMA connector; Multi-mode fiber optic line (only glass); recommended: 50/125 μ m, 62,5/125 μ m, also compatible with: 100/140 μ m, 200 μ m (pay attention to max. line length)
Max. line length between two FO repeaters	50/125 μm: 1500 m, 62,5/125 μm: 2000 m
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 120 mm

Order number

1.01.0210.11020	CAN-CR110/FO, with bus termination resistor
1.01.0210.11220	CAN-CR110/FO, without bus termination resistor

Accessories

Туре	Order number	Product image
Sub-D9 Connector with CAN Termination	1.04.0075.03000	
CAN cable	1.04.0076.00180	
Y CAN cable	1.04.0076.00001	
More accessories and detailed inforn	nation	

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