

FO-Repeater

The FO Repeater 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.

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.



Technical Data

Display	Sending (2 green LEDs), defective segment (2 red LEDs)
CAN bus interface	ISO 11898-2. Screw terminals. CAN termination resistors are integrated (switchable).
FOC connection	2 x F-SMA or ST terminals for duplex line (Glass 50/125 μ m duplex)
Baudrate	Up to 888 kbps
Delay	~300 ns (translates into ~60 m (~90 ft.) 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, 3 W typ., through terminals
Galvanic isolation	1 kV, 1 sec.; CAN 1
Temperature range	-20 °C to +60 °C
Housing, size	Plastic enclosure, 110 x 75 x 22 mm (without FO connector)

Order number

1.01.0063.01010	CAN Fiber Optic Repeater - Glass fiber version with F-SMA connector
1.01.0063.01020	CAN Fiber Optic Repeater - Glass fiber version with ST connector