



DL485-MBR

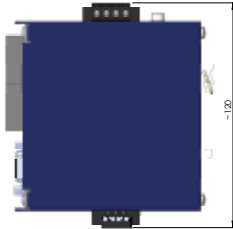
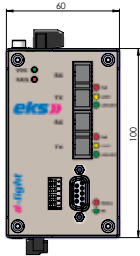
MODBUS-FO- SYSTEM REDUNDANT

The fiber optic systems DL485-MBR secure the optical data transfer within MODBUS networks up to a data speed of 115,2 KBit/s. Our special multifunctional fiber optic system allows the construction of optical ring structures.

The system of this series is especially suitable for applications with strict safety-related requirements as for instance: process industry, tunnel ventilation systems and railway technology.

LEDs and potential-free contacts of a fault detector relay are able to signal defective states.

FiberView works similarly to a traffic light. If the "traffic light" is green, everything is fine. If the yellow LED lights, the budget is still tolerable, but already below a certain system reserve. Additionally to the LED, this pre-warning level is also signaled by a potential-free contact. If the "traffic light" turns red there is a serious error.



Type	P-ST	H-ST	MM-ST	MM-SC	MM-SC/BIDI	SM-ST	SM-SC	SM-E2	SM-SC/BIDI
Article no. DL485-MBR	01000 7951	01000 7962	01000 7971	01000 7973	01000 7973-BIDI	01000 7981	01000 7983	01000 7985	01000 7983-BIDI
FO-connector	ST	ST	ST	SC	SC	ST	SC	E-2000	SC
Fiber type	POF 980/1000 μm	HCS 200/230 μm	Multimode 62.5 (50) /125 μm			Singlemode 9/125 μm			
Optical budget	12 dB	12 dB	12 dB			16 dB			
FO range	50 m (180 dB/km)	200 m (8 dB/km)	5 km (1 dB/km)			30 km, others up to 100 km on request (0.3 dB/km)			
Wavelength	650 nm	850 nm	1310 nm		1310 nm 1550 nm	1310 nm			1310 nm 1550 nm
Data rate	9.6 KBit/s, 19.2 KBit/s, 38.4 KBit/s, 57.6 KBit/s oder 115.2 KBit/s								
Transmission type	Half duplex								
Terminating resistor	Switchable: none or wave impedance (Rw + Rpd + Rpu)								
RS485 Cable length	1200 m								
RS485 Connector	9-pole Sub-D female and 6-pole terminal								
Status-LEDs	Power supply (green) / Failure (red) / Data receive (green) / Status (red) / FiberView (red, yellow, green)								
Power supply	12-30 VDC, other voltages on request								
Power consumption	5 Watts, 200 mA (24 V)								
Potential separation	500 VDC (24 VDC <-> RS485)								
Operating temperature	-40 °C – +70 °C (Multimode and Singlemode with ST or SC), -20 °C – +55 °C (all others)								
EMC	EN61000-6-2/EN55022 + A1 + A2 Class B								
Weight	570 g								
Dimensions	H: 115 mm, B: 61 mm, T: 113 mm								
Housing	Stainless steel, powder coated								