



## DL485 / DL485-4W

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### RS485-FO-SYSTEM PROTOCOL TRANSPARENT

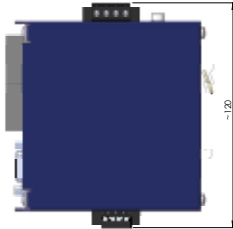
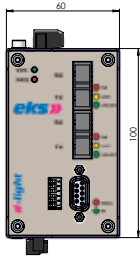
The fiber optic systems DL485 connect field bus systems with RS485 interfaces. Optical linking allows safe data transfer and is suitable for MODBUS, MODNET-1/SFB, BIT-BUS, SAIA-S-BUS and several manufacturer-specific systems.

The fiber optic systems DL485-4W connect field bus systems with RS485 four-wire interfaces.

With the help of this innovative system optical bus, star, tree and mixed structures are possible.

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. fiber optic systems DL485 connect field bus systems with RS485 interfaces. Optical linking allows safe data transfer and is suitable for MODBUS, MODNET-1/SFB, BIT-BUS, SAIA-S-BUS and several manufacturer-specific systems.



Type	P-ST	H-ST	MM-ST	MM-SC	MM-SC/BIDI	SM-ST	SM-SC	SM-E2	SM-SC/BIDI
Article no. DL485	01000 6101	01000 6112	01000 6121	01000 6123	01000 6123-BIDI A 6123-BIDI B	01000 6131	01000 6133	01000 6135	01000 6133-BIDI A 6133-BIDI B
Article no. DL485-2x	01000 6151	01000 6162	01000 6171	01000 6173	01000 6173-BIDI	01000 6181	01000 6183	01000 6185	01000 6183-BIDI

**Data rate** 1200 Bit/s bis 3 MBit/s

**Transmission type** Half duplex

Type	P-ST	H-ST	MM-ST	MM-SC	MM-SC/BIDI	SM-ST	SM-SC	SM-E2	SM-SC/BIDI
Article no. DL485-4W	01000 6601	01000 6612	01000 6621	01000 6623	01000 6623-BIDI A 6623-BIDI B	01000 6631	01000 6633	01000 6635	01000 6633-BIDI A 6633-BIDI B
Article no. DL485-4W-2x	01000 6651	01000 6662	01000 6671	01000 6673	01000 6673-BIDI	01000 6681	01000 6683	01000 6685	01000 6683-BIDI

**Data rate** 1200 Bit/s bis 3 MBit/s

**Transmission type** 2 x Half duplex

FO-connector	ST	ST	ST	SC	SC	ST	SC	E-2000	SC
<b>Fiber type</b>	POF 980/1000 µm	HCS 200/230 µm		Multimode 62.5 (50)/125 µm			Singlemode 9/125 µm		
<b>Optical budget</b>	12 dB	12 dB		12 dB			16 dB		
<b>FO range</b>	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)		
<b>Wavelength</b>	650 nm	850 nm		1310 nm	1310 nm 1550 nm		1310 nm		1310 nm 1550 nm

**Terminating resistor** Switchable: none or wave impedance (Rw + Rpd + Rpu)

**RS485 Cable length** 1200 m (9.6–93.75 KBit/s), 250 m (500 KBit/s), 90 m (1.5 MBit/s)

**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** 60 x 100 x 113 mm (60 x 120 x 113 mm incl. connector)

**Housing** Stainless steel, powder coated