



DL485-PB / DL485-PBR

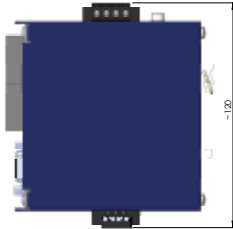
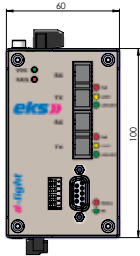
PROFIBUS-FO- SYSTEM STANDARD REDUNDANT

The systems DL485-PB connect ProfiBus-field bus networks by fiber optics. With the help of this innovative system, optical bus, star, tree and mixed structures are possible.

The special multifunctional fiber optic system DL485-PBR also 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-PB	01000 6201	01000 6212	01000 6221	01000 6223	01000 6223-BIDI A 6223-BIDI B	01000 6231	01000 6233	01000 6235	01000 6233-BIDI A 6233-BIDI B
Article no. DL485-PB-2x	01000 6251	01000 6262	01000 6271	01000 6273	01000 6273-BIDI	01000 6281	01000 6283	01000 6285	01000 6283-BIDI
Type	P-ST	H-ST	MM-ST	MM-SC	MM-SC/BIDI	SM-ST	SM-SC	SM-E2	SM-SC/BIDI
Article no. DL485-PBR	01000 6351	01000 6362	01000 6371	01000 6373	01000 6373-BIDI	01000 6381	01000 6383	01000 6385	01000 6383-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 max.	12 MBit/s								
Transmission type	Half duplex								
Signal delay	RS485 <> FO: < 3 T _{Bit} / Tx <> Rx: 11 T _{Bit}								
Terminating resistor	Switchable: none or wave impedance (R _w + R _{pd} + R _{pu})								
RS485 Cable length	1200 m (9.6–187.5 KBit/s), 400 m (500 KBit/s), 200 m (1.5 MBit/s), 100 m (3 MBit/s–12 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								