DL LWV

MEDIA CONVERTER AND OPTICAL AMPLIFIER

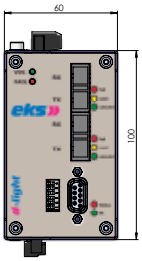
The fiber optic system DL LWV works as amplifier and media converter for several fiber optic transmission networks.

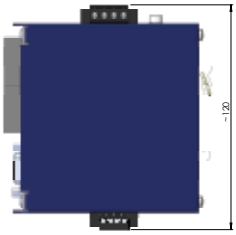
Less optical power requires amplification. Different fiber types within one application need conversion. The system DL LWV offers various possibilities, corresponding to these requirements.

The system contains fiber optic receiver and transmitter components. The incoming signal is electrically processed and then coupled back into the fiber optic cable via the transmitter. With the aid of this intermediate amplifier the line length is unlimited using various fiber types as for instance: POF, HCS, multimode or singlemode fiber optic cable.

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

Please note that the adjoining chart just covers a small selection of our product range. In general, any combination of fiber type, wavelength and bandwidth is available. The columns are marked with F1 up to F16 for the types of fiber.





Type	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16
FO-connector	HP VL	HP VL	ST	SMA	ST	SMA	ST	SC	ST	SC	SC BIDI	E-2000	ST	SC	SC BIDI	E-2000
Fiber type		POF 980/1000 µm			POF 980/1000 µm				Multimode 62.5 (50)/125 µm					Singlemode 9/125 µm		
Optical budget	29 dB	12 dB	12 dB	12 dB	12 dB		8 (4.2) dB		12 dB				16 dB			
Data rate max.	57.6 KBit/s	10 MBit/s	5 MBit/s		100 MBit/s		5 MBit/s		100 MBit/s				100 MBit/s			
FO range	150 m	40 m			40 m		2.6 (1.4) km		5 km				30 km, others up to 100 km on request			
Fiber attenuation	180 dB/km						3 dB/km		1 dB/km				0.3 dB/km			
Wavelength	650 nm						820 nm		1310 nm				1310 nm			

Status-LEDs	Power supply (green) / Data (yellow) / Status (red)
Power supply	12–30 VDC, other voltages on request
Power consumption	5 Watts, 200 mA (24 V)
Potential separation	500 VDC
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	500 g
Dimensions	60 x 100 x 113 mm (60 x 120 x 113 mm incl. connector)
Housing	Stainless steel, powder coated