DL-LWV
Media Converter and Optical Amplifier

System description

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

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

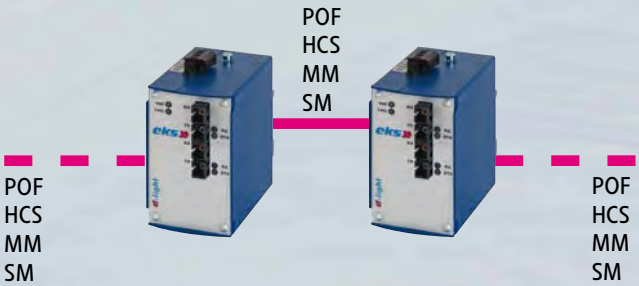
The system contains fiber optic receiver and transmitter components. The incoming signal is electrically processed, amplified and then coupled back into the fiber optic cable via the transmitter. With the aid of this intermediate amplifier the line length is unlimited using various fiber types as for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

LED's 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.

In addition to ST and SC the optical connection types E2000 and the HP Versatile Link are also available. All systems can communicate via two as well as one fiber with the help of the BIDI-technology with SC port.

Application



Ordering Information

System DL-LWV/								
Wavelength Channel 1	650nm	650nm	650nm	850nm	850nm	1300nm MM	1300nm MM	1300nm
Wavelength Channel 2	850nm	1300nm MM	1300nm SM	1300nm MM	1300nm SM	1300nm SM	1300nm MM BIDI	1300nm SM BIDI
Fiber Connector	ST, SC, SMA, HP Versatile	ST, SC, SMA HP Versatile	ST, SC, SMA HP Versatile	ST, SC, SMA E2000	ST, SC, SMA E2000	ST, SC E2000	ST, SC E2000	ST, SC E2000

Fiber Fiber Type	POF 980/1000 µm	Multi-Mode 62,5 (50) /125 µm			Single-Mode 9/125 µm	
Optical Budget	12 dB	8 (4,2) dB	13 dB	13dB	17 dB	17 dB
Max. Distance	50 m (180 dB/km)	2 (1,4) km (3 dB/km)	5 km (1 dB/km)	5 km (1 dB/km)	15 km (0,4 dB/km)	15 km (0,4 dB/km)
Wavelength	650 nm	850 nm	1300 nm	1300/1500 nm BIDI	1300 nm	1300/1500 nm BIDI

Power Supply Status - LED's	Power Supply (green) / Data Receive (yellow) / Status (red)
Operating Voltage	24 VDC (10 VDC .. 30 VDC), other voltages on request
Current Consumption	200 mA
Potential Separation	500 VDC

Environmental	
Operating Temperature	-10°C - +55°C
Storage Temperature	-40°C - +85°C
EMC	EN61000-6-2 / EN55022 Class B +A1 + A2

Mechanical	
Weight	500 g
Housing	stainless steel, powder coated
Dimensions (H x B x T)	115 mm x 61 mm x 113 mm