

DL-232

RS232-Fiber Optic System



System description

The fiber optic systems DL-232 connect systems with a RS232-interface via fiber optics. The DL-232 allows communication via software-handshake (Xon/ Xoff).

With the help of this innovative system optical point-to-point structures and bus structures are possible.

Important performance features of the transfer with POF, HCS, multimode or singlemode fiber optic are the electromagnetic ruggedness, the potential separation of transmitter and receiver, as well as ranges up to 40km between two fiber optic systems. LED's and potential-free contacts (optional) of a fault detector relay are able to signal defective states.

Furthermore RS232- fiber optic systems are also available in the following designs:



LWL-2

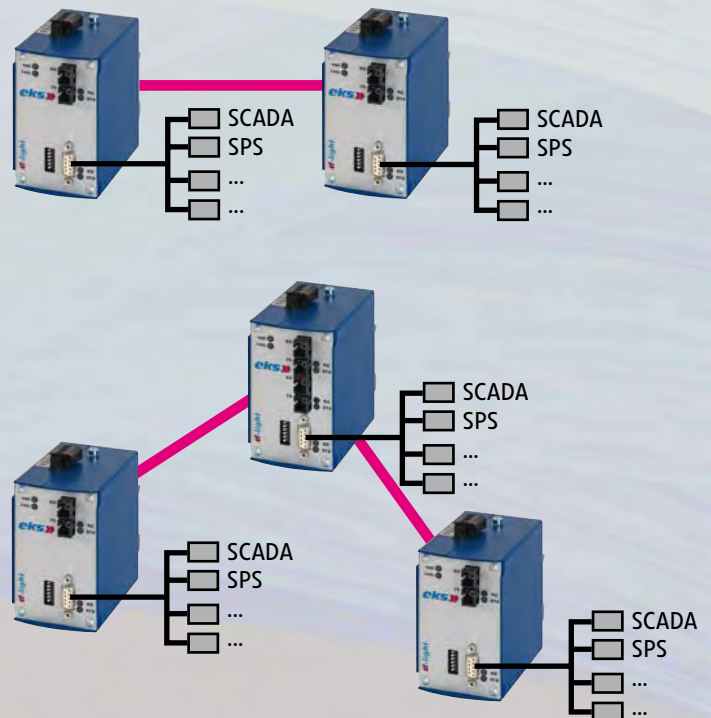


LWL-9



LWL-KS

Application



Ordering Information



System	6-P-ST	6-P-SM	13-M-ST	13-M-SC	13-M-SC-BIDI	13-S-ST-L	13-S-SC-L	13-S-SC-BIDI
DL-232/								
Ordering-No. (1 FX)	0 100 01101	0 100 01102	0 100 01121	0 100 01123	0 100 01123-BIDI	0 100 01131	0 100 01133	0 100 01133-BIDI
DL-232/	2x6-P-ST	2x6-P-SM	2x13-M-ST	2x13-M-SC	2x13-M-SC-BIDI	2x13-S-ST-L	2x13-S-SC-L	2x13-S-SC-BIDI
Ordering-No. (2 FX)	0 100 01151	0 100 01152	0 100 01171	0 100 01173	0 100 01173-BIDI	0 100 01181	0 100 01183	0 100 01183-BIDI
Fiber Connector	ST	SMA	ST	SC	SC	ST	SC	SC

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

Interface	
Data Rate max.	1,5 MBit/s (divided by the number of fiber optic segments)
Operation Mode	full duplex (RxD und TxD)
Transmission Mode	DTE / DCE switchable
Max. Distance	15m distance according to V.24 specification
Signal Delay	RS232 ↔ LWL : 500ns
Connector	9 pol. SUB-D female / 6 pol. screw terminal block RS232 asynchronous / Xon/Xoff-Protocol

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 (1 FX) / 250 mA (2 FX)
Potential Separation	500 VDC (24 VDC → RS232)

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

