

DL-232MUX

RS232-Multiplexer-Fiber Optic System



System description

The system DL-RS232MUX is a multiplexer for 4xRS232 signals, working bidirectional via optical fiber cable. Thus, in addition to the RxD and TxD signal, hardware-handshake signal as RTS, CTS, DCD, DSR and DTR can be transferred, too.

RS232-multiplexers feature a similar pin assignment as modems. Two multiplexers, connected by fiber optic cable, cross the wires, thus operating like a null modem cable.

Hence, connecting two data processing terminals (with pin assignment) requires two 1:1 cables to be able to link the terminals to the multiplexers. Terminals with a DCE-pin assignment have to be connected to the multiplexer via a null modem cable.

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.

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

Please inquire your requested type if it is not listed in the

Application



Ordering Information



System	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
DL-485MUX/								
Ordering-No.	0 100 01201	0 100 01202	0 100 01221	0 100 01223	0 100 01223-BIDI	0 100 01231	0 100 01233	0 100 01233-BIDI
Fiber Connector	ST	SMA	ST	SC	SC	ST	SC	SC

Fiber	POF 980/1000 μ m	Multi-Mode 62,5 (50) /125 μ m	Single-Mode 9/125 μ m
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.	115,2 KBit/s per RS232-channel
Transmission Mode	4 x RS232-channels
Operation Mode	full duplex
Max. Distance	15 m distance according to V.24 specification
Signal Delay	RS232 \longleftrightarrow LWL \longleftrightarrow RS232: 1,9 μ s + 5ns per meter fiber
Connector	9 pol. SUB-D female

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 (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

