

DL-485PB

PROFIBUS-Fiber Optic System



System description

The systems DL-485PB connect profibus field bus networks by fiber optics.

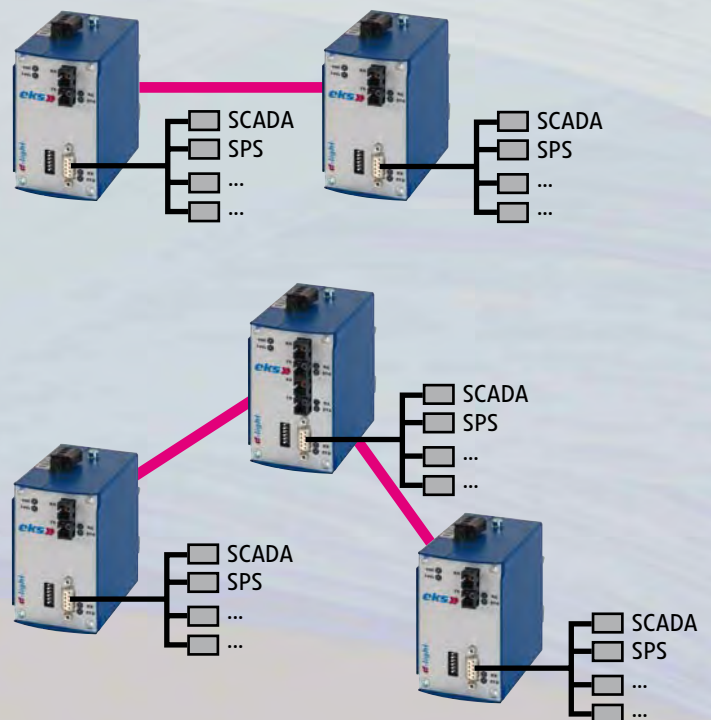
With the help of this innovative system, optical bus structures, star structures, tree structures as well as mixed structures are possible.

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.

In addition to ST, SC and SMA the optical connection type E2000 is also available. All systems can communicate via two fibers as well as via 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								
DL-485PB/	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
Ordering-No. (1 FX)	0 100 06201	0 100 06202	0 100 06221	0 100 06223	0 100 06223-BIDI	0 100 06231	0 100 06233	0 100 06233-BIDI
DL-485PB/	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 06251	0 100 06252	0 100 06271	0 100 06273	0 100 06273-BIDI	0 100 06281	0 100 06283	0 100 06283-BIDI
Fiber Connector	ST	SMA	ST	SC	SC	ST	SC	SC

Fiber					
Fiber Type	POF 980/1000 μ m	Multi-Mode 62,5 (50) /125 μ m			Single-Mode 9/125 μ m
Optical Budget	12 dB	13dB	13dB	17 dB	17 dB
Max. Distance	50 m (180 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	1300 nm	1300/1500 nm	1300 nm	1300/1500 nm

Interface	
Data Rate max.	3 MBit/s
Operation Mode	halfduplex
Termination	switchable: none or resistor network (Rw + Rpd + Rpu)
Max. Distance	1.200m (9,6 – 187,5 KBit/s), 400m (500 KBit/s), 200m (1.5 MBit/s) Distances according to Profibus user Organization (PNO)
Signal Delay	RS485 \longleftrightarrow LWL : 400ns Tx \longleftrightarrow Rx : 500ns
Connector	9 pol. SUB-D female / 6 pol. terminal screw block

Power Supply	
Status - LED's	Power Supply (green) / Data Receive (yellow) / Status (red)
Operatin 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 \rightarrow RS485)

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
Dimension (H x B x T)	115 mm x 61 mm x 113 mm

