

DL-485CAN

CAN-Fiber Optic System



System description

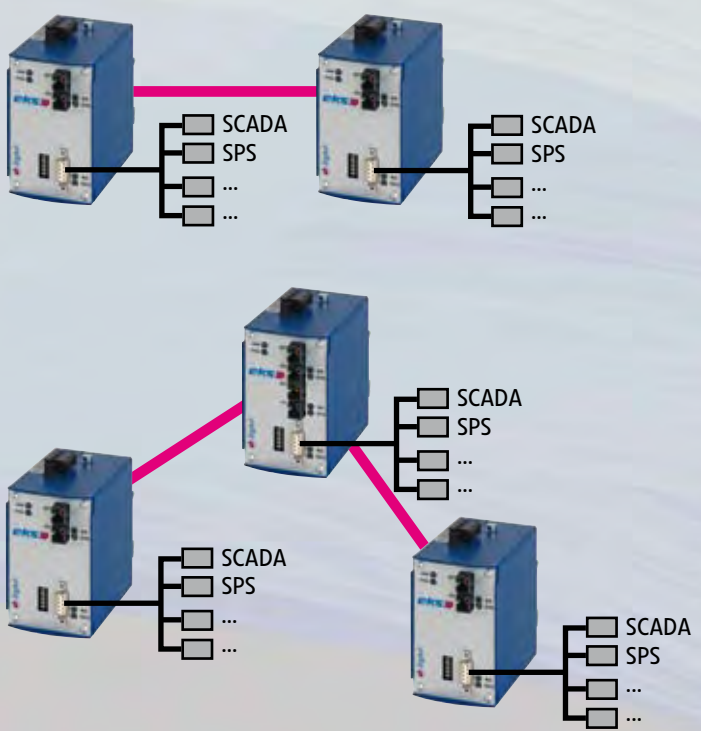
The systems DL-CAN connect CAN field bus networks by fiber optics. With the help of this innovative system, optical bus structures, star structures, tree structures as well as mixed structures are possible.

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 adjoining chart.

Application



Ordering Information

System								
DL-CAN/	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 07401	0 100 07402	0 100 07421	0 100 07423	0 100 07423-BIDI	0 100 07431	0 100 07433	0 100 07433-BIDI
DL-CAN/	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 07451	0 100 07452	0 100 07471	0 100 07473	0 100 07473-BIDI	0 100 07481	0 100 07483	0 100 07483-BIDI
Fiber Connector	ST	SMA	ST	SC	SC	ST	SC	SC

Fiber					
Fiber Type	POF 980/1000 μm	Multi-Mode 62,5 (50) /125 μm		Single-Mode 9/125 μm	
Optical Budget	12 dB	8dB	8dB	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.	1000, 800, 500, 250, 125, 100, 50, 22,2, 20 und 20 Kbaud
Operation Mode	halfduplex
Termination	switchable: none or resistor network (Rw)
Max. Distance	Distances according to CAN specification
Signal Delay	CAN \leftrightarrow LWL : 400ns Tx \leftrightarrow 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 CAN)

Environmental	
Operating Temperature	-10°C - +55° C
Storage Temperature	-40 - +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

