

# DL-422

## RS422-Fiber Optic System



### System description

The fiber optic systems DL-422 connect applications with a RS422 interface via fiber optics.

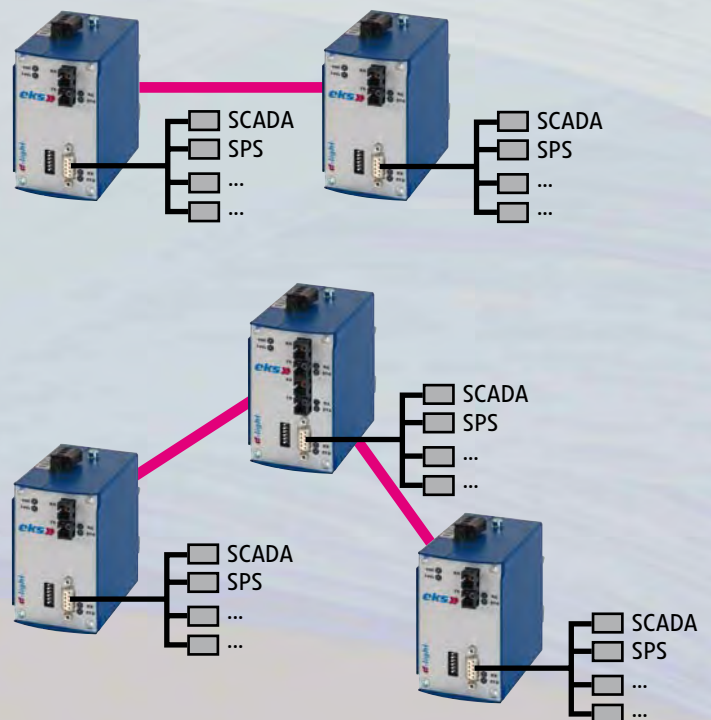
With the help of this innovative system optical bus structures, star structures, tree structures as well as mixed structures are possible.

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 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 adjoining chart.

### 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-422/ Ordering-No. (1 FX)	0 100 02101	0 100 02102	0 100 02121	0 100 02123	0 100 02123-BIDI	0 100 02131	0 100 02133	0 100 02133-BIDI
DL-422/ Ordering-No. (2 FX)	0 100 02151	0 100 02152	0 100 02171	0 100 02173	0 100 02173-BIDI	0 100 02181	0 100 02183	0 100 02183-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
Optical Budget	12 dB	13dB	13dB
Max. Distance	50 m (180 dB/km)	5 km (1 dB/km)	5 km (1 dB/km)
Wavelength	650 nm	1300 nm	1300/1500 nm

Schnittstelle	
Data Rate max.	1,5 MBit/s (divided by the number of fiber optic segments)
Operation Mode	Full duplex
Termination	switchable for receiver: none or resistor network (Rw + Rpd + Rpu)
Max. Distance	50m distances could change by the customer specification
Signal Delay	RS422 ↔ LWL ↔ RS422: 220ns +/- 50ns/Bit Tx ↔ Rx : 500ns
Connector	9 pol. SUB-D female / 6 pol. screw terminal block

Power Supply	
Status - LED's	Power Supply (green) / Data Receive (yellow) / Status (red)
Operation 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 RS422)

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

