



EL6021 | Serial interface RS422/RS485

The EL6021 serial interface enables the connection of devices with RS422 or RS485 interface. These devices communicate with the automation device via the coupler. The active communication channel operates independently of the higher-level bus system in full or half duplex mode at up to 115.2 kbaud. The transmission of differential signals according to RS422 guarantees high immunity to interference through electrically isolated signals.

In conjunction with the TwinCAT Virtual Serial COM Driver (see TwinCAT Supplements – Communication) the EL6021 can be used as a normal Windows COM interface.

Technical data	EL6021 ES6021
Technology	terminal contact
Data transfer channels	TxD and RxD, full/half duplex
Data transfer rates	2400...115,200 baud; default: 9600 baud, 8 data bits, no parity and one stop bit
Bit transfer	with differential signal
Line impedance	120 Ω
Cable length	approx. 1000 m twisted pair
Interfaces	1 x RS422/RS485
Providing external supply	–
Power supply	via the E-bus
Electrical isolation	500 V (E-bus/signal voltage)
Data buffer	864 bytes receive buffer, 128 bytes transmit buffer
Bit width in the process image	22 x 8 bit input, 22 x 8 bit output, 16 bit control, 16 bit status
Configuration	no address setting, configuration via PLC
Current consumption E-bus	typ. 170 mA
Weight	approx. 55 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, UL, Ex, IECEx

Special terminals	
EL6021-0021	RS422/485 line device

Accessories	
TS6360	license for using the TwinCAT Virtual Serial COM Driver for Windows and Windows CE platforms

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