



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 EL6001 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	2,400...115,200 baud; default: 9,600 baud, 8 data bits, no parity and one stop bit
Bit transfer	with differential signal
Line impedance	120 Ω
Cable length	approx. 1,000 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	0...+55 °C/-25...+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

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

System	
RS485	For further RS485 products please see the system overview .