Top view   Contact assembly

EL6001 | Serial interface RS232

The EL6001 serial interface enables the connection of devices with RS232 interface and operates in conformity with the CCITT V.28/DIN 66 259-1 standards. The device connected to the EL6001 EtherCAT Terminal communicates with the automation device via the coupler. The active communication channel operates independently of the higher-level bus system in full duplex mode at up to 115.2 kbaud. The RS232 interface 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	EL6001	ES6001
Technology	terminal contact
Data transfer channels	2 (1/1), TxD and RxD, full duplex
Data transfer rates	2,400…115,200 baud; default: 9,600 baud, 8 data bits, no parity and one stop bit
Bit distortion	< 3 %
Line impedance	–
Cable length	max. 15 m
Interfaces	1 x RS232
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 the controller
Current consumption E-bus	typ. 120 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 60068-2-27/29
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	
TwinCAT PLC Serial Communication	IEC 61131-3 software library for TwinCAT PLC for communication via serial Bus Terminals or PC COM ports
TwinCAT PLC Serial Communication 3964R/RK512	licence for using the software library for communication via serial Bus Terminals or PC COM ports using the protocol 3964R/RK512
TwinCAT PLC Modbus RTU	IEC 61131-3 software library for TwinCAT PLC with Modbus RTU function blocks for serial communication with Modbus devices
TwinCAT Virtual Serial COM Driver	licence for using the TwinCAT Virtual Serial COM Driver for Windows XP and Windows CE platforms