Status LEDs

Serial interface 1

Serial interface 2

Top view

# EL6002, EL6022 | 2-channel serial interfaces RS232/RS422/RS485, D-sub connection

The EL6002 and EL6022 serial interfaces enable the connection of devices with two RS232 or two RS422/RS485 interfaces. The devices connected to the EL6002/EL6022 EtherCAT Terminals communicate with the automation device via the Coupler. The active communication channel operates independently of the higher-level EtherCAT system in full duplex mode with 300 baud up to 115.2 kbaud. The RS232/RS422/RS485 interfaces guarantee high interference immunity through electrically isolated signals. The EL6022 can provide 2 x 5 V/20 mA out of the E-bus supply (electrically isolated, short-circuit-proof) for the supply of external devices.

In conjunction with the TwinCAT Virtual Serial COM Driver, the EL60xx can be used as a normal Windows COM interface.

| Technical data | EL6002 | EL6022 |
|---|---|---|
| Technology | D-sub, 9-pin | |
| Data transfer channels | 2 | |
| Data transfer rates | 300…115,200 baud; default: 9,600 baud, 8 data bits, no parity and one stop bit | |
| Interfaces | 2 x RS232 | 2 x RS422/RS485 |
| Line impedance | – | 120 Ω |
| Cable length | max. 15 m | approx. 1,000 m twisted pair |
| Providing external supply | – | 2 x max. 5 V/20 mA, out of E-Bus supply, short-circuit-proof |
| Power supply | via the E-bus | |
| Distributed clocks | – | |
| 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 power contacts | – | |
| Current consumption E-bus | typ. 170 mA | typ. 270 mA |
| Special features | 2 x 5 V/20 mA for external supply (EL6022) | |
| 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 | |
| Approvals | CE, UL, Ex | |

| Accessories | |
|---|---|
| TwinCAT Virtual Serial COM Driver | licence for using the TwinCAT Virtual Serial COM Driver for Windows XP and Windows CE platforms |