



EL5032 | 2-channel EnDat 2.2 interface

The EL5032 EnDat 2.2 EtherCAT Terminal is used for direct connection of two encoders with EnDat 2.2 interface. The EL5032 enables reading of position values, diagnosis encoder data, internal and external temperature values and the electronic identification plate. With the electronic identification plate all measuring device-specific information is directly available. In addition, user-defined data can be stored in the encoder. This enables cost-effective and quicker commissioning. The position value is output with up to 48 bits, depending on the resolution of the connected measuring device. In addition to the position value, further information such as status information, addresses and data can be transferred. A list of additional information supported by the encoder is stored in the parameters. The EL5032 features distributed clocks, which means that the position value can be read in exact synchrony with the system. If the distributed clock function is deactivated, the EL5032 cycles synchronous with the EtherCAT cycle.

Technical data	EL5032
Technology	EnDat 2.2 interface
Number of channels	2
Encoder connection	D+, D-, C+, C-
Encoder operating voltage	optionally 5 V DC or 9 V DC, 0.5 A
Encoder output current	max. 0.5 A for both channels
Supply voltage electronics	24 V DC (via power contacts)
Commands	reading position values including additional information available for selection via MRS code (Memory Range Select), reading and writing parameters, reset functions
Resolution	max. 48 bit position
Current consumption power contacts	typ. 150 mA
Current consumption E-bus	typ. 120 mA
Distributed clocks	yes
Special features	saving the zero offset shift, electronic type plate, diagnostics, warning, including cable length compensation up to 100 m, reading the encoder temperature values
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 50 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
Approvals	CE, UL