



EL5152 | 2-channel incremental encoder interface

The EL5152 EtherCAT Terminal is an interface with 24 V inputs for the direct connection of incremental encoders. With the EL5152, two 32 bit counters with quadrature decoder can be read and set.

The EL5152 supports the synchronous reading of the encoder value, together with other input data, into the EtherCAT system via high-precision EtherCAT distributed clocks (DC).

Technical data	EL5152 ES5152
Technology	incremental encoder interface 24 V DC
Number of channels	2
Encoder connection	A1, B1, A2, B2, EN 61131-2, type 1, "0": < 5 V DC, "1": > 15 V DC, typ. 5 mA
Sensor inputs	2
Encoder operating voltage	24 V DC
Counter	2 x 32 bit
Input frequency	max. 400,000 increments/s (with 4-fold evaluation)
Quadrature decoder	4-fold evaluation
Commands	read, set, latching
Distributed clocks	yes
Input signal	24 V DC
Supply voltage	24 V DC (-15 %/+20 %)
Nominal voltage	24 V DC at power contact
Current consumption power contacts	typ. 100 mA + load
Resolution	1/256 bit microincrements
Current consumption E-bus	typ. 130 mA
Bit width in the process image	28 byte ENC input, 12 byte ENC output
Special features	microincrements, period duration and frequency measurement, up/down counters
Weight	approx. 50 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 ESxxx terminals
Approvals	CE, UL, Ex, IECEx

Related products	
EL5151	1-channel incremental encoder interface, 32 bit
EL5151-0021	1-channel incremental encoder interface with parameterisable 24 V DC output