



## EL5001 | SSI encoder interfaces

The EL5001 SSI interface EtherCAT Terminal allows an SSI encoder to be connected directly. The interface circuit generates a pulse for reading the encoder and makes the incoming data stream available to the controller as a data word in the process image. Various operating modes, transmission frequencies and bit widths can be permanently stored in a control register.

Technical data	EL5001   ES5001
Technology	SSI encoder interface
Number of channels	1
Encoder connection	D+, D-, Cl+, Cl-
Signal output (pulse)	difference signal (RS422)
Signal input (data)	difference signal (RS422)
Power supply	24 V via power contacts
Current consumption	typ. 20 mA without encoder
Encoder supply	24 V DC via power contacts
Data transfer rates	variable up to 1 MHz, 250 kHz default
Serial input	24 bit width (variable)
Data direction	read
Bit width in the process image	1 x 32 bit input, 8 bit status
Current consumption power contacts	typ. 20 mA
Current consumption E-bus	typ. 120 mA
Distributed clocks	yes
Special features	adjustable baud rate, coding and data length
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 55 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 ESxxxx terminals
Approvals	CE, UL, Ex

Related products	
<b>EL5001-0011</b>	SSI monitor terminal, no clock output (simply listening)
<b>EL5002</b>	2-channel SSI encoder interface