



EL5001-0011 | SSI monitor terminal

The EL5001-0011 SSI monitor EtherCAT Terminal is used for monitoring the data exchange between SSI master and SSI encoder (slave). The encoder is powered via the existing SSI interface. The interface circuit makes the incoming data stream available to the controller as a data word in the process image. Various operating modes can be permanently set via the control register.

Technical data	EL5001-0011
Technology	SSI encoder interface
Number of channels	1
Encoder connection	data input: D+, D-; clock input: Cl+, Cl-; RS422 differential signal
Input frequency	125 kHz...1 MHz, variable
Signal output (pulse)	difference signal (RS422)
Signal input (data)	difference signal (RS422)
Power supply	internal SSI electronics: 24 V DC via power contacts; internal E-bus electronics: via the E-bus
Current consumption	typ. 20 mA without encoder
Encoder supply	24 V DC via power contacts
SSI frame length	1...32 bit
Coding	Gray, Dual
Power fail bit	can be activated
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
Configuration	via TwinCAT System Manager
Current consumption power contacts	typ. 20 mA
Current consumption E-bus	typ. 130 mA
Distributed clocks	yes
Special features	no clock output (simply listening)
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 100 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
Approvals	CE, UL, Ex

Related products	
EL5001	1-channel SSI encoder interface
EL5002	2-channel SSI encoder interface