



EL3004 | 4-channel analog input terminal -10...+10 V, single-ended, 12 bit

The EL3004 analog input terminal processes signals in the range between -10 and +10 V. The voltage is digitised to a resolution of 12 bits, and is transmitted, electrically isolated, to the higher-level automation device. The four single-ended inputs are 2-wire versions and have a common, internal ground potential. The power contacts are connected through. The reference ground for all inputs is the 0 V power contact. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL3004 ES3004
Number of inputs	4 (single-ended)
Power supply	via the E-bus
Technology	single-ended
Signal voltage	-10...+10 V
Distributed clocks	–
Internal resistance	> 130 kΩ
Input filter limit frequency	1 kHz
Dielectric strength	max. 30 V
Conversion time	0.625 ms default setting, configurable
Resolution	12 bit (16 bit presentation, incl. sign)
Measuring error	< ±0.3 % (relative to full scale value)
Electrical isolation	500 V (E-bus/signal voltage)
Current consumption power contacts	–
Current consumption E-bus	typ. 130 mA
Bit width in the process image	inputs: 16 byte
Configuration	no address or configuration setting required
Special features	standard and compact process image, switchable measuring data representation, activatable FIR/IIR filters, limit value monitoring, overload display in the process data
Weight	approx. 70 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