



EL3161 | 1-channel analog input terminal 0...10 V, single-ended, 16 bit

The EL3161 analog input terminal processes signals in the range between 0 and 10 V. The voltage is digitised to a resolution of 16 bits, and is transmitted, electrically isolated, to the higher-level automation device. The input channels of the EtherCAT Terminal have the reference ground as common ground potential. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL3161 ES3161
Number of inputs	1 (single-ended)
Power supply	via the E-bus
Technology	single-ended
Signal voltage	0...10 V
Distributed clocks	yes
Internal resistance	> 200 k Ω
Input filter limit frequency	5 kHz
Dielectric strength	max. 30 V
Conversion time	~ 35 μ s
Resolution	16 bit (incl. sign)
Measuring error	< \pm 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	1 x 16 bit input, 1 x 8 bit status
Special features	standard and compact process image, activatable FIR/IIR filters, limit value monitoring
Weight	approx. 60 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
Pluggable wiring	for all ESxxxx terminals