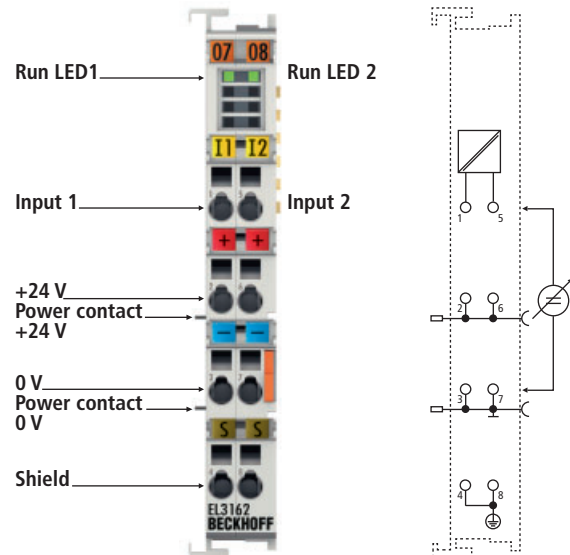


Top view, contact assembly, connection



Top view, contact assembly, connection

EL3161, EL3162 | 1-, 2-channel analog input terminals 0...10 V, single-ended, 16 bits

The EL3161 and EL3162 analog input terminals process 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 an EtherCAT Terminal have the reference ground as common ground potential. The EL3161 is the single-channel version. The EL3162 combines two channels in one housing. The signal state of the EtherCAT Terminals is indicated by light emitting diodes.

Technical data	EL3161 ES3161	EL3162 ES3162
Number of inputs	1 (single-ended)	2 (single-ended)
Power supply	via the E-bus	
Signal voltage	0...10 V	
Distributed clocks	yes	
Internal resistance	> 130 k Ω	> 200 k Ω
Input filter limit frequency	10 kHz	
Conversion time	~ 35 μ s	~ 50 μ s
Resolution	16 bits (incl. sign)	
Measuring error	< \pm 0.3 % (relative to full scale value)	
Electrical isolation	500 V _{rms} (E-bus/signal voltage)	
Current consumption E-bus	130 mA typ.	170 mA typ.
Bit width in the process image	1 x 16 bit input, 1 x 8 bit status	2 x 16 bit input, 2 x 8 bit status
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 60068-2-27/29	
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	
Further information	www.beckhoff.com/EL3161	

i For availability status see Beckhoff website at: www.beckhoff.com/EL3161