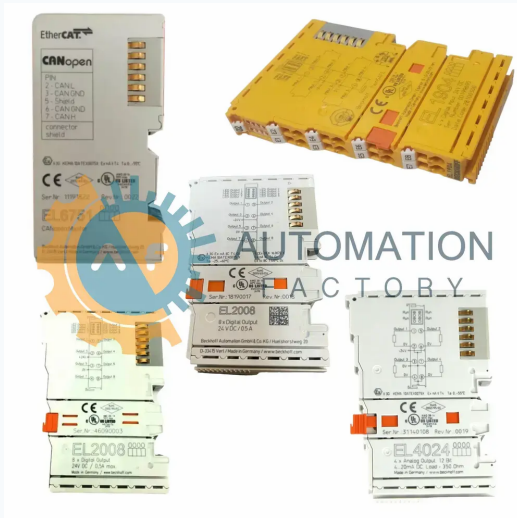




Beckhoff — EL EtherCAT Terminals

EL3061



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The **EL3061** is a single-channel analog input module produced by Beckhoff for the EL EtherCAT Terminals series. It installs in a 35 mm DIN rail assembly and digitizes voltage signals so an EtherCAT controller can monitor sensors or actuators in real-time motion, packaging, and process applications. The module exchanges process data through the EtherCAT E-Bus, so no additional field wiring is required for upstream communication. Its compact terminal format allows it to be installed alongside compatible EtherCAT modules in an enclosed control cabinet.

The terminal completes a full conversion in **0.625 ms**, making new measured values available to the network at submillisecond intervals. Its resolution is **12 bits with 16-bit presentation**, so each sample is quantized into 4,096 steps and placed in a 16-bit container for sign extension and status flags. A front-end input filter with a cutoff frequency of **1 kHz** suppresses higher-frequency noise before conversion, making the input suitable for typical industrial transducers. The front housing has an **IP20** rating, providing protection against finger contact when the module is installed inside a control panel. The module receives its logic power through **the E-Bus**, eliminating separate power wiring for its internal electronics and allowing distribution through the backplane contacts.

Application data are mapped to the controller as **2 status bytes and 2 value bytes per channel**, providing direct access to overrange flags and the signed sample without additional parsing. The input circuit withstands up to **30 V** between the signal input and ground, helping protect the module from common wiring faults. The housing snaps onto a standardized **35 mm DIN rail**, allowing it to fit established terminal assemblies without a separate mounting bracket. The circuitry acquires all applicable points **simultaneously**, avoiding phase delays that could affect time-

correlated measurements. A variable installation position provides flexibility when arranging terminals within the available cabinet space. The single-ended input uses a common ground reference for connected voltage signals.

Specifications

Analog Inputs:	1	Bit width in the process image:	inputs: 4 byte	Conversion Time:	0.625 ms
Dielectric strength:	30 V max.	Dimensions (W x H x D):	12 mm x 100 mm x 68 mm	Distributed Clocks:	No
Electronics Supply:	Via E-Bus	Ground Reference:	Single Ended	Input Filter Cutoff:	1 kHz
Input filter limit frequency:	1 kHz	Installation Position:	Variable	Internal resistance:	> 130 k?
Material:	Polycarbonate	Mounting Rail:	35 mm	Nocoestorage Support:	Yes
Number of inputs:	1 (single-ended)	Operating temperature:	-25...+60°C	Process Image Width:	2 bytes status, 2 bytes value/channel
Protection Rating:	IP20	Resolution:	12 bits (16 bits presentation)	Sampling Type:	Simultaneous
Signal voltage:	0...10 V	Vibration resistance:	conforms to EN 60068-2-6	Weight:	approx. 60 g
Last Verified:	10/23/2026 8:01 PM				

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