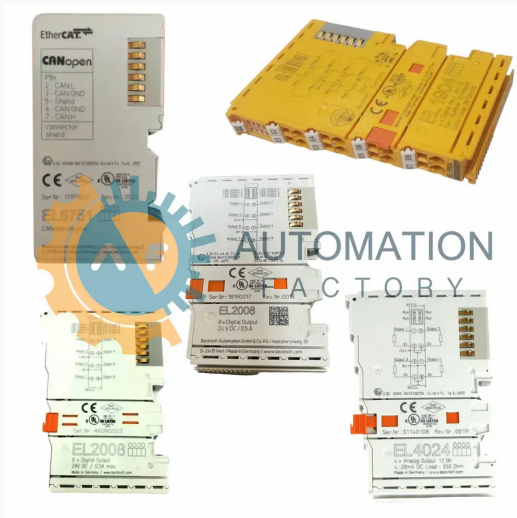




Beckhoff — EL EtherCAT Terminals

EL3068

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The **EL3068** analog input terminal is produced by Beckhoff as part of the EL EtherCAT Terminals series. Designed for industrial automation, it digitizes low-level voltage signals from field sensors and forwards them to an EtherCAT controller through the backplane. By consolidating multiple voltage channels in a 12 mm slice, the component reduces panel space while providing straightforward DIN-rail mounting inside an IP20 cabinet. Its single-ended architecture suits applications where all transducers share a common reference, such as temperature probes, potentiometers, or PLC expansion racks.

Each of the **8** analog inputs is referenced to a shared ground and measures a unipolar voltage against the bus supply. An internal track-and-hold circuit with a cutoff frequency of **1 kHz** attenuates higher-frequency noise before conversion. The input stage presents an impedance of **>130 k Ω** , minimizing sensor loading across extended wiring. Conversion accuracy is set by a **12-bit** successive-approximation ADC, providing 4,096 discrete codes per channel. The module does not implement the EtherCAT distributed clocks feature, so sampling is synchronized by the host controller instead. With a protection rating of **IP20**, the electronics must be installed in an enclosed control panel. Channel isolation toward adjacent terminals is verified for a dielectric strength of **30 V**, suitable for common low-voltage instrumentation loops. Signal acquisition employs a **multiplex** sequence, so the internal converter is time-shared among channels while deterministic update timing is preserved. The module locks onto a **35 mm** DIN rail and maps a fixed process image of **2 bytes status + 2 bytes value/ch** to the controller. The module does not support CoE storage for retaining configuration parameters through power cycles.

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Specifications

Analog Inputs:	8	Bit width in the process image inputs:	32 byte	Conversion time:	1.25 ms default setting, configurable, multiplex
Current consumption E-bus:	typ. 130 mA	Dielectric Strength:	30 V	Distributed Clocks:	No
Electrical isolation:	500 V (E-bus/signal voltage)	EMC immunity:	Conforms to EN 61000-6-2	Ground Reference:	Single-Ended
Input Filter Cutoff:	1 kHz	Internal Resistance:	>130 k?	Measuring error:	< ±0.3 % (relative to full scale value)
Mounting Rail:	35 mm	Nocoestorage Support:	Yes	Number of inputs:	8 (single-ended)
Process Image:	2 bytes status + 2 bytes value/ch	Protection Class:	IP 20	Protection Rating:	IP20
Relative humidity:	95 %, no condensation	Resolution:	12 bits	Sampling Type:	Multiplex
Shock resistance:	EN 60068-2-27	Storage Temperature:	-40...+85 °C	Last Verified:	10/24/2026 4:22 AM

Contact Us

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