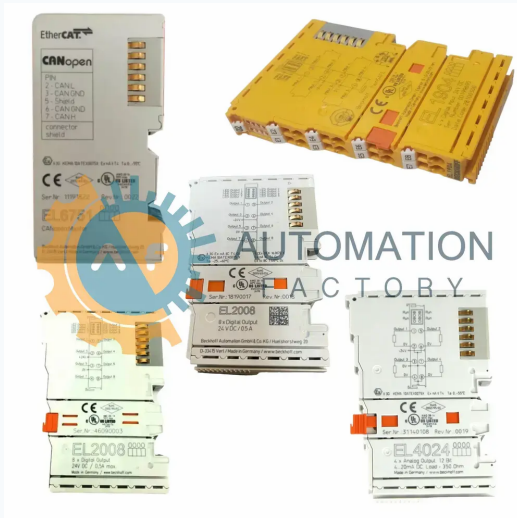




Beckhoff — EL EtherCAT Terminals

EL3058



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The **EL3058** is an analog input EtherCAT terminal produced by Beckhoff for the EL EtherCAT Terminals series. The unit converts field-level current signals into digital process data that a PLC can read over the EtherCAT network, allowing precise monitoring of machine variables such as pressure, position, and temperature. It snaps onto a standard DIN rail beside other terminals and receives power and communication through the internal E-bus contacts. This modular connection method allows the terminal to be added to an EtherCAT station without separate network wiring between adjacent modules.

The terminal has **8 single-ended inputs** that share a multiplexed sampling path. Each channel is conditioned by a low-pass input filter with a cutoff frequency of **1 kHz** and then digitized at a resolution of **12 bits**. The converter processes all channels within **1.25 ms**, making the terminal suitable for fast EtherCAT cycles. Acquired data occupy 2 bytes of status information and 2 bytes of measured value per channel in the process image, allowing diagnostic flags to accompany every sample. Distributed clocks are not supported, so the EtherCAT master must manage any required time alignment. The housing has an **IP20** protection rating and is intended for installation inside a protected control cabinet.

The module draws **130 mA** from the E-bus, while its input contacts require 40 mA from the field supply. The maximum permissible input voltage is **30 V**, helping protect the channels when adjacent signal sources have small potential differences. The input path has a typical resistance of **85 Ω**, providing a consistent load for connected transducers and helping damp transient currents. Its compact dimensions of **15 × 100 × 70 mm** match the

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standard Beckhoff terminal housing width. This narrow enclosure supports a high channel density while limiting the amount of DIN-rail space required inside the cabinet. Proper spacing and cabinet protection help maintain dependable operation within the permitted ambient conditions.

Specifications

Analog Inputs:	8	Compact process image:	supported	Conversion time:	1.25 ms
Dielectric strength:	30 V max.	Dimensions (w X H X D):	15 x 100 x 70 mm	Distributed Clocks:	No
E-bus Current:	130 mA typ.	E-bus current consumption:	typ. 130 mA	FIR filter (activatable):	supported
Ground Reference:	Single-Ended	Housing material:	Polycarbonate	IIR filter (activatable):	supported
Input Contact Current:	40 mA	Input Filter Cutoff:	1 kHz	Input filter cutoff frequency:	1 kHz
Internal resistance:	85 ? typ.	Limit value monitoring:	supported	Measurement uncertainty:	±0.3% of full scale
Number of single-ended inputs:	8	Operating temperature range:	-25...+60°C	Process image input bit width:	32 Byte
Process Image Width:	2 B status + 2 B value/ch	Protection rating:	IP20	Resolution:	12 bits
Sampling Type:	Multiplex	Signal current range:	4...20 mA	Last Verified:	10/25/2026 5:09 AM

Contact Us

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