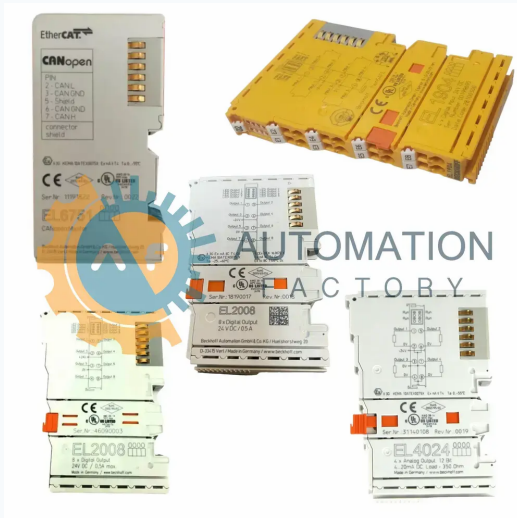




Beckhoff — EL EtherCAT Terminals

EL3154



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The **EL3154** is a four-channel analog input terminal from Beckhoff that belongs to the EL EtherCAT Terminals series. It installs on an EtherCAT I/O strand and converts single-ended process voltages into digital data so that a PLC or IPC can monitor sensors and transducers within an automation cell. By sharing fieldbus communication and backplane power through the E-Bus, the terminal occupies a single slot while providing multichannel signal acquisition for distributed control systems.

The module provides **4** analog-to-digital channels, each sampled by a converter with a resolution of **16 bits**. An internal analog filter limits the input bandwidth to **5 kHz**, helping prevent aliasing before the multiplexed sampling stage. Electrical isolation from adjacent terminals has a dielectric strength of up to **30 V**, and all inputs share a common conductor to accommodate single-ended field wiring. When enabled, **Distributed Clocks** synchronize sampling events across the EtherCAT network so that the 4 × 16-bit input process image reaches the controller with deterministic timing. The electronic supply is drawn exclusively from the E-Bus, which reduces external wiring, while the 4 × 8-bit status process image reports diagnostics for each channel. NoCoeStorage support retains configuration data after a power cycle.

The signal section draws up to **40 mA** from the bus, simplifying power allocation in dense terminal groups. The housing has a protection rating of **IP20** and mounts on a standard **35 mm** DIN rail, making the unit suitable for installation in closed control cabinets. Reliable operation is maintained at ambient humidity levels of up to **95%** without condensation. The multiplexed sampling system allows the four inputs to be processed within the terminal's

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compact housing. Its single-ended ground arrangement accommodates process voltage signals that share a common reference. E-Bus power and EtherCAT communication also reduce the number of separate connections required within the terminal assembly.

Specifications

Analog Inputs:	4	Approvals/markings:	CE, CCC, UL, ATEX, IECEx, cFMus	Current Consumption E-bus:	Typ. 130 mA
Dielectric Strength:	Max. 30 V	Dielectric Strength Max:	30 V	Distributed Clocks:	Yes
Electronics Supply:	E-Bus	Ground Reference:	Single-Ended	Input Filter Limit:	5 kHz
Input Filter Limit Frequency:	5 kHz	Input Process Image:	4 x 16 bit	Internal Resistance:	Typ. 85 ? + diode voltage
Max Relative Humidity:	95%	Measurement Error/uncertainty:	< ±0.3% (relative to full scale value)	Mounting Rail:	35 mm
Nocoestorage Support:	Yes	Number Of Inputs:	4 (single-ended)	Operating Temperature:	-25...+60°C
Protection Class:	IP20	Protection Rating/installation Position:	IP20/Variable	Resolution:	16 bit
Sampling Type:	Multiplex	Signal Current:	4...20 mA	Signal Terminal Current:	40 mA
Status Process Image:	4 x 8 bit	Storage Temperature:	-40...+85°C	Last Verified:	10/24/2026 2:18 AM

Contact Us

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