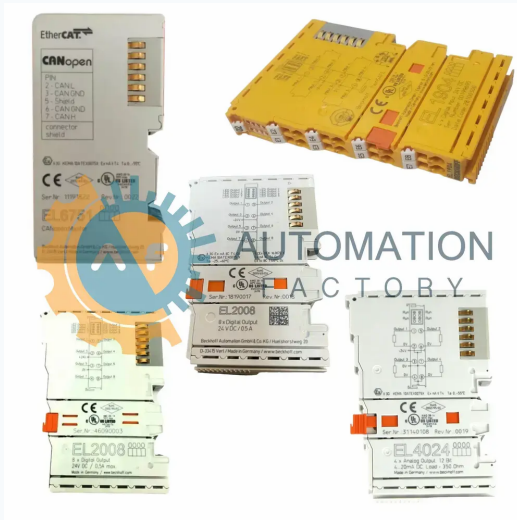




Beckhoff — EL EtherCAT Terminals

EL3008

 **In-Stock, Ships Today**

- ✓ Get a Quote in 5 minutes
- ✓ Parts ship in as little as 24 hours
- ✓ Up to half the cost of the manufacturer

**Secure Online**
Checkout**Free Ground**
Shipping**One Year**
Warranty

The **EL3008** is an analog input terminal manufactured by Beckhoff for the EL EtherCAT Terminals series. Installed on an EtherCAT I/O strand, it digitizes low-level process voltages so that PLCs can read field signals through the high-speed E-bus backplane. The terminal supports single-ended measurements referenced to a shared ground, making it suitable for sensors and control loops that already use a common return conductor.

This model provides **8 analog inputs**, and the internal converter scans every channel within a typical **1.25 ms conversion time**. Each reading has a **12-bit resolution**, which divides the full-scale range into 4,096 discrete values for consistent control accuracy. The permissible signal range is **±10 V**, allowing direct connection to many industrial transducers without external scaling. An input filter with a cutoff frequency of **1 kHz** attenuates higher-frequency noise before sampling, which improves measurement stability in electrically noisy cabinets.

Power for the terminal electronics is drawn from the system bus, with a typical E-bus demand of **130 mA**. The housing has an **IP20** protection rating, which guards against finger contact but requires installation in an enclosure for protection from dust and moisture. Total gain and offset deviations remain within **±0.3% FS**, supporting tight control tolerances without frequent recalibration. The input stage has an impedance of **>130 kΩ**, minimizing the load on the signal source even when several channels are wired in parallel. The terminal uses multiplex sampling across its channels and provides a dielectric strength of 30 V between the input and supply circuits. It can operate at up to 95% relative humidity, and its process image contains two status bytes and two value bytes per channel. Distributed clock support is not included, so the terminal does not provide time-stamped acquisition through that

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

feature.

Specifications

Analog Inputs:	8	Approvals/markings:	CE, CCC, UL, ATEX, IECEx	Bit Width In The Process Image:	inputs: 32 byte
Conversion Time:	1.25 ms Typ.	Current Consumption E-bus:	typ. 130 mA	Dielectric Strength:	30 V
Distributed Clocks:	No	E-bus Current:	130 mA Typ.	Ground Reference:	Single-Ended
Humidity Limit:	95%	Input Filter Cutoff:	1 kHz	Input Filter Limit Frequency:	1 kHz
Internal Resistance:	>130 k?	Measurement Error/uncertainty:	< ±0.3% (relative to full-scale value)	Measuring Error:	<±0.3% FS
Number Of Inputs:	8 (single-ended)	Operating Temperature:	-25°C to +60°C	Power Supply:	via the E-bus
Process Image:	2 B Status + 2 B Value/Ch	Protection Rating:	IP20	Resolution:	12 Bits
Sampling Type:	Multiplex	Signal Voltage:	±10 V	Storage Temperature:	-40°C to +85°C
Last Verified:	10/24/2026 4:28 AM				

Contact Us

-  1620 Old Apex Road, Cary, NC 27513, USA
-  **Toll Free:** [1-888-551-3082](tel:1-888-551-3082)
-  **International:** [1-919-443-0207](tel:1-919-443-0207)
-  **Fax:** [1-919-867-6204](tel:1-919-867-6204)
-  **Email:** sales@wakeindustrial.com

Shipping Options



Payment Methods



Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.