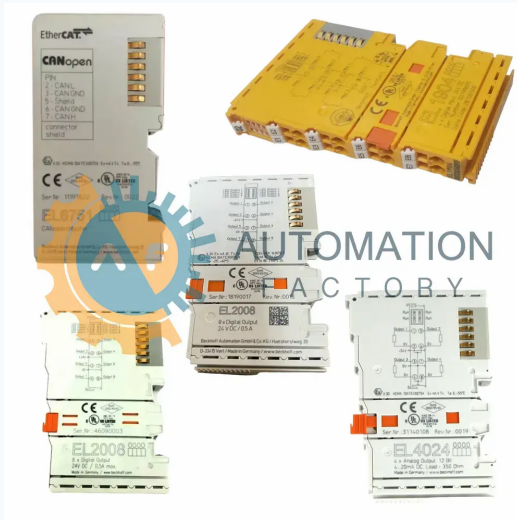




Beckhoff — EL EtherCAT Terminals

EL1259

**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 **EL1259** is an EtherCAT I/O terminal manufactured by Beckhoff as part of the EL EtherCAT Terminals series. Intended for installation in industrial control systems, the device combines discrete sensing and actuation so that cabinet wiring can be consolidated through a single fieldbus link. It provides deterministic, timestamped data to the controller, allowing tight control loops and coordinated motion in automation lines that require millisecond or submillisecond response times. These capabilities support time-sensitive operations in packaging, assembly, and test machinery.

The input bank offers **8 channels** that draw only **3 mA per channel** from the field supply, keeping sensor loading low. On the output side, a corresponding set of eight push-pull transistors can source up to **0.5 A per point** without external drivers, allowing direct connection of small solenoids or indicator lamps. The terminal operates from a control voltage of **24 VDC**. For time-critical applications, every edge is captured and reproduced with a resolution of **1 ns**, enabling precise control of lasers, cameras, or valve manifolds. Signal exchange with the master is synchronized through distributed clocks so that simultaneous events across multiple terminals remain aligned. Each channel can buffer **32 events** locally, helping prevent data loss during periods of heavy network traffic. The housing has a width of only **12 mm**, and the module snaps onto a 35 mm DIN mounting rail to conserve cabinet space. The enclosure has an **IP20** protection rating, so installation inside a suitable cabinet is necessary in dusty or wet areas. The internal E-bus draws **130 mA**, which must be considered when sizing the power feed for long terminal assemblies. Signal wiring uses the 1-wire connection technique, reducing the number of conductors

required for each field device. The push-pull output stage maintains consistent signal levels throughout the rated voltage range.

Specifications

Buffer Events Per Channel:	32	Channels:	8 inputs, 8 outputs	Connection Technology:	1-wire
Digital Inputs:	8	Digital Outputs:	8	Distributed Clocks:	Yes
EMC Compliance:	EN 61000-6-2 / EN 61000-6-4	Input Current:	3 mA (typ., IEC 61131-2 type 1/3)	Input Filter:	< 1 µs (typ.)
Max Detection Rate:	25...100 k edges/s	Max Output Current:	0.5 A per channel (short-circuit proof)	Max Output Current Per Channel:	0.5 A
Mounting Rail:	35 mm	Operating Temp.:	0...55 °C	Output Stage:	Push
Output Time Resolution:	1 ns	Overall Width:	12 mm	Protection Class:	IP20
Protection Rating:	IP20	Rated Voltage:	24 VDC	Sampling Time:	10...40 µs (configurable)
Signal Voltage '0':	-3...+5 V (IEC 61131-2 type 1/3)	Signal Voltage '1':	11...30 V (IEC 61131-2 type 1/3)	Storage Temp.:	-25...+85 °C
Supply Voltage:	24 V DC (-15%/+20%)	Typical E-bus Current:	130 mA	Typical Input Current:	3 mA
Weight:	55 g (approx.)	Last Verified:	10/24/2026 1:16 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.