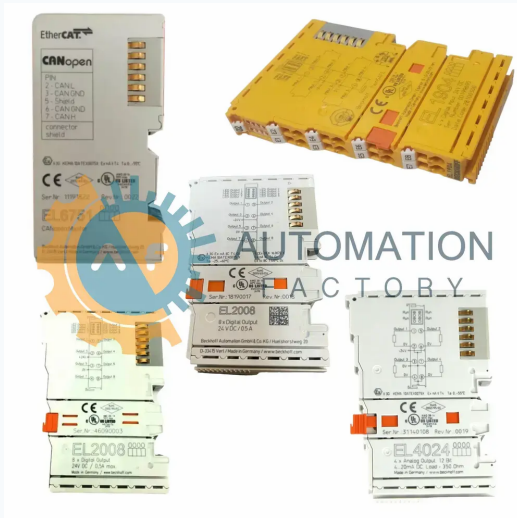




Beckhoff — EL EtherCAT Terminals

EL4112



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 **EL4112** is a two-channel analog output terminal produced by Beckhoff for the EL EtherCAT Terminals series. Installed on a DIN-rail I/O station, it converts digital process data from the EtherCAT bus into regulated current signals for actuators, valve islands, or transducers in distributed control systems. Each channel shares a single-ended ground reference, allowing straightforward wiring in compact control cabinets while still providing galvanic separation through the bus coupler.

The terminal delivers a programmable output span of **0 to 20 mA** with a conversion granularity of **16 bits**, so a controller can command 65,536 discrete current levels for fine torque, speed, or flow regulation. Internally, both channels sample and update at a maximum rate of **20 kSps**; this high throughput supports fast control loops or waveform generation without aliasing. A minimum EtherCAT cycle time of **50 µs** ensures that data words reach the terminal quickly enough to use that bandwidth. The output stages refresh **simultaneously**, eliminating phase skew between the channels, which is useful for coordinated multi-axis drives or differential control strategies.

The current driver supports a load resistance of **less than 500 Ω**, so it interfaces directly with most industrial receivers without booster amplifiers. System power is routed through the terminal's power contacts, which are rated for **4 A**, allowing several neighboring modules to share the same supply trunk. The electronics operate from **0 to +55 °C** and can be stored from -25 to +85 °C. The housing carries an **IP20** rating, which protects against finger contact with hazardous internal parts and the entry of solid objects larger than 12.5 mm. Process data appear to the PLC as two 16-bit words plus status bits, so configuration and diagnostics integrate with Beckhoff TwinCAT or other

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.

Specifications

Approvals/markings:	CE, CCC, UL, ATEX, IECEx	Current Consumption E-bus:	Typically 110 mA	Current Consumption Power Contacts:	Typically 15 mA + load
Distributed Clock Precision:	<< 1 us	Distributed Clocks:	Yes	Ground Reference:	Single Ended
Load:	<500 ?	Max Output Rate:	20 kSps	Min Cycle Time:	50 μs
Number Of Outputs:	2	Operating Temperature:	0...+55°C	Output Current:	0...20 mA
Output Error:	< 0.1% (relative to end value)	Output Rate:	Max. 15 ksps	Outputs:	2
Power Contact Capacity:	4 A	Power Supply:	24 V DC via power contacts	Process Image:	2 x 16 Bit Data
Protection Rating:	IP20	Resolution:	16 Bit	Sampling Type:	Simultaneous
Signal Current:	0...20 mA	Storage Temperature:	-25...+85°C	Last Verified:	10/24/2026 8:01 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.