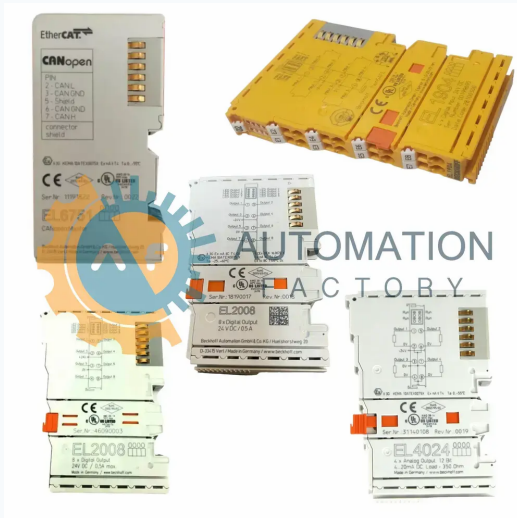




Beckhoff — EL EtherCAT Terminals

ELX3152



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 **ELX3152** is an EtherCAT I/O terminal produced by Beckhoff within the EL EtherCAT Terminals series. Intended for distributed control cabinets, the unit snaps onto a DIN rail and forwards process signals to the EtherCAT bus while maintaining galvanic separation between field equipment and the PLC. Its compact housing and integrated energy-limiting features support data acquisition from hazardous-area instrumentation without requiring excessive cabinet space. The terminal is designed for process automation systems that need reliable communication between intrinsically safe field circuits and an EtherCAT control network.

The terminal operates from a system supply of **24 VDC**, delivered through a **SELV/PELV** power feed on the backplane. Each input loop uses a **dedicated channel supply**, which confines the available energy to the individual circuit and prevents one channel from powering another. The **external sensor supply is prohibited**, preventing power from being introduced in a way that could exceed the permitted intrinsic-safety limits. The input electronics also have a fault threshold of **60 V**; if a higher potential appears, the affected channel disconnects to protect downstream equipment. This arrangement allows the terminal to power compatible two-wire transmitters directly while keeping the field circuits electrically isolated from the control system. Separate channel operation also helps contain wiring faults within the affected input loop.

The field side uses **Ex i** protection, which limits the electrical and thermal energy available at the terminals to reduce the risk of ignition under approved operating conditions. The internal spring-cage connections follow the reinforced construction requirements of **Ex e**, providing secure conductor termination within the installation. An

enclosure with an **IP54** rating resists limited dust ingress and splashed water when the terminal is installed in the appropriate cabinet. Approved placement includes cabinets in a **Zone 2 or non-hazardous area**, and only compatible intrinsically safe field devices may be connected to the input channels. Proper separation, grounding, and cabinet installation remain necessary to maintain the intended protection method. The terminal can collect analog process data from hazardous-area sensors while communicating with the controller through the standard EtherCAT backplane.

Specifications

Cabinet Protection:	IP54	Connected Device Type:	Intrinsically Safe Devices Only	Connection Method:	2-wire or 3-wire
Conversion Time:	typ. 1 ms	Current Consumption (E-bus):	typ. 85 mA	Current Consumption (Power Contacts):	typ. 10 mA + load
Distributed Clocks:	Yes	External Sensor Supply:	Not Permitted	Fault Voltage Limit:	60 V
Field Interface Protection:	Ex i	FIR/IIR Filters:	Activatable	Input Filter Cutoff Frequency:	5 kHz
Installation Area:	Zone 2 Or Non-Hazardous Area	Limit Value Monitoring:	Yes	Measurement Uncertainty:	< ±0.3% FS
Measuring Resistance:	typ. 100 ?	NAMUR NE43 Compliance:	Yes	Number of Inputs:	2 (single-ended)
Power Supply Type:	SELV/PELV	Process Image Type:	Standard and Compact	Resolution:	16 bit
Sensor Supply Method:	Via Respective Channel	Signal Current Range:	0/4...20 mA	Supply Voltage:	24 VDC
Terminal Protection:	Ex e	Weight:	approx. 60 g	Last Verified:	10/23/2026 10:55 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.