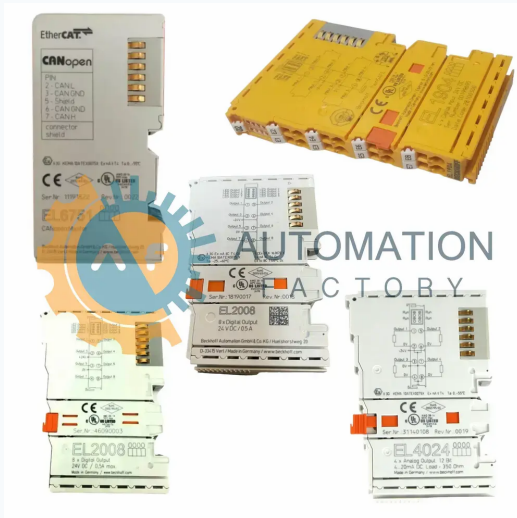




Beckhoff — EL EtherCAT Terminals

ELX9560



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The **ELX9560** is a power supply terminal produced by Beckhoff within the EL EtherCAT Terminals series. It supplies the intrinsically safe branch of an EtherCAT node with stabilized 24 V field power while maintaining independent logic power for the upstream coupler. By concentrating the supply function in one slot, the terminal allows energy to be routed to hazardous-area input and output modules without external wiring adapters, simplifying cabinet layouts in process automation systems.

The terminal's internal power rail provides **galvanic isolation** from the system bus, preventing potential differences on the field side from disrupting communication. Field conductors are secured by a **spring-force clamp** that resists vibration more effectively than screw contacts. The unit operates at temperatures from **-25 °C** to **+60 °C**, accommodating cold starts and elevated enclosure temperatures. Installations outside a sealed rack must provide at least **IP54** protection so that dust and splashed water cannot reach or bridge the contacts. The downstream feed accepts only ELX signal terminals, which helps maintain the required intrinsic-safety parameters throughout the connected segment.

Single-core copper conductors can have a cross-section of up to **1.5 mm²**, while ferruled conductors are limited to 1.0 mm². The minimum accepted conductor cross-section is **0.14 mm²**, allowing fine instrumentation wiring to connect to the terminal block. Insulation should be stripped to **9 mm**, with an allowable lower limit of 8 mm, to match the clamp depth and prevent excess bare copper from remaining exposed. The release pin accepts a 2 mm blade, reducing the risk of damage that could result from using an oversized tool. The surge withstand capability

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complies with Overvoltage Category II. This category makes the terminal suitable for secondary electrical circuits located downstream of the facility's main power distribution system.

Specifications

Approvals:	CE, UL, ATEX, IECEx, cFMus, CCC	Busbar Isolation:	Galvanic	Connection Method:	Spring Force
Downstream Compatibility:	ELX Signal Terminals Only	E-bus current consumption:	typical 40 mA	EMC immunity/emission:	EN 61000-6-2 & EN 61000-6-4
Housing width:	48 mm	Input voltage:	24 V DC (-15%/+20%)	Max Ambient Temp:	+60 °C
Max Ferrule Wire:	1.0 mm²	Max output current:	0.65 A	Max Screwdriver Width:	2 mm
Max Single-core Wire:	1.5 mm²	Max Strip Length:	9 mm	Min Ambient Temp:	-25 °C
Min Enclosure Rating:	IP54	Min Ferrule Wire:	0.14 mm²	Min Single-core Wire:	0.14 mm²
Min Strip Length:	8 mm	Operating temperature range:	-25 to +60 °C	Output voltage:	24 V DC EX
Output voltage isolation:	Electrically isolated	Overvoltage Category:	II	Protection rating:	IP20
Reverse polarity protection:	Yes	Storage temperature range:	-40 to +85 °C	Supply & output voltage diagnostics:	Yes
Terminal Type:	Power Supply Terminal	Vibration & shock resistance:	EN 60068-2-6 & EN 60068-2-27	Weight:	Approx. 200 g
Last Verified:	10/24/2026 2:03 PM				

Contact Us

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