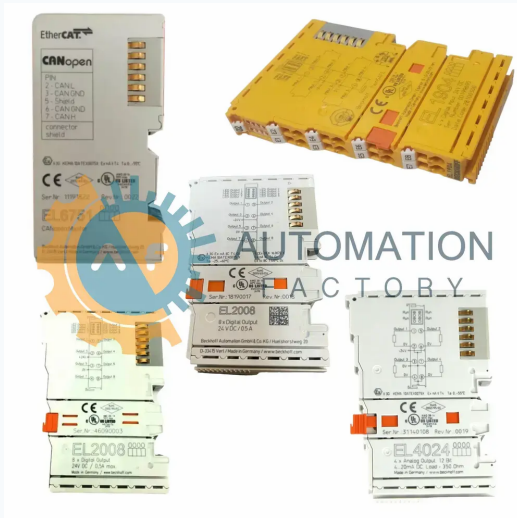




Beckhoff — EL EtherCAT Terminals

EL2911



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The **EL2911** is a safety output terminal produced by Beckhoff within the EL EtherCAT Terminals series. Installed alongside other EtherCAT I/O modules, the unit acts as a switchable 24 V DC power stage that disconnects or energizes field devices under the control of a TwinSAFE logic controller. It combines power switching with certified safety functions in a compact terminal housing. This arrangement supports emergency-stop and guard-monitoring circuits without requiring separate safety relays for the output channel.

The terminal can source up to **9 A**, allowing it to drive contactors, magnetic valves, and mixed resistive, inductive, or lamp loads without external amplifiers. Its output voltage is **24 V DC**, matching common control-cabinet power supplies and avoiding the need for additional converters. The device contains **one output channel**, which minimizes its process-data requirements on the EtherCAT bus and simplifies address assignment. The housing clips onto a **35 mm DIN rail**, allowing straightforward installation with adjacent terminals in a control cabinet. Its **IP20 enclosure rating** protects against accidental finger contact with hazardous internal parts when the terminal is correctly installed and wired.

Functional safety communication uses **Safety over EtherCAT**, allowing diagnostic data and acknowledgment signals to travel within the same real-time communication cycle as standard process data. The output stage is **short-circuit-proof**, so internal protection shuts down the channel if the connected load draws excessive current. The permitted operating temperature range is **0 °C to +55 °C**, which covers typical temperature conditions inside industrial control cabinets. When the machine is powered off, the terminal can be stored within a temperature range

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of **-25 °C to +85 °C**. The integrated diagnostic functions help the control system identify output faults and respond through the configured TwinSAFE logic.

Specifications

Connection Technology:	1-/2-wire and/or via power contacts	Current Consumption (e-bus):	Typ. 180 mA	Current Consumption (power Contacts):	Load-dependent
Design Form:	Compact terminal housing with signal LEDs	Dimensions (w X H X D):	24 mm x 100 mm x 68 mm	Fault Response Time:	<= watchdog time (parameterizable)
Installation Position:	Horizontal	Load Type:	Ohmic, Inductive, Lamp	Material:	Polycarbonate
Max Output Current:	9 A	Maximum Output Current:	10 A	Mounting:	35 mm DIN Rail
Nominal Output Voltage:	24 V DC	Number Of Outputs:	1	Operating Temperature:	0°C to +55°C
Output Channels:	1	Protection Class:	IP20	Protection Rating:	IP20
Protocol:	TwinSAFE/Safety over EtherCAT	Safety Protocol:	Safety over EtherCAT	Safety Standard:	EN ISO 13849-1:2015 (Cat. 4, PL e) and EN 61508:2010 (SIL 3)
Short-circuit Proof:	Yes	Specification:	Link unit between safe input and output signals	Storage Temperature:	-25°C to +85°C
Weight:	Approx. 98 g	Last Verified:	10/23/2026 9:35 AM		

Contact Us

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