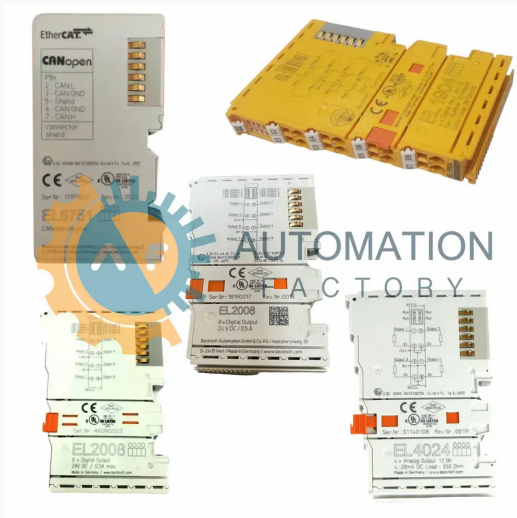




Beckhoff — EL EtherCAT Terminals

EL9181



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The **EL9181** is a potential distribution terminal manufactured by **Beckhoff** for the **EL EtherCAT Terminals** series. Within an I/O station, it routes auxiliary power and ground connections to adjacent signal terminals, allowing field devices to share a common supply without separate distribution wiring. The unit occupies a single slot on a DIN rail and contains no user-visible process data. It functions as an infrastructure component rather than a terminal that sources or receives logical signals.

The housing measures **12 mm** wide, conserving cabinet space while providing eight power contacts for each potential. Its internally bridged contacts support a maximum continuous load of **10 A**. The direct plug-in connection method accommodates solid conductors, while the EtherCAT E-bus and separate power contacts pass directly through the module. Electrical insulation between the galvanically isolated groups withstands up to **500 V**, and each group can carry up to **60 VDC**. The **IP20** protection category makes the terminal suitable for installation inside closed control enclosures. Its process image width is 0 bits because the terminal does not exchange control or status data with the EtherCAT network.

The body attaches to a standard **35 mm** mounting rail and can be installed in any orientation to accommodate different cabinet layouts. Sixteen terminal points are arranged in two rows, with eight points assigned to each of the two distinct potentials. This arrangement keeps the bus and auxiliary conductors partitioned in systems that use separate supply groups. The device tolerates up to **95%** relative humidity when condensation is prevented, allowing operation in a range of enclosed industrial environments. Because the terminal has no protective earth contact, the

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machine wiring must provide a separate protective earth connection wherever one is required.

Specifications

Bit Value:	16 bits, signed integer	Bus Interface:	EtherCAT Terminal	Connection Type:	2-wire, spring force connection
Conversion Time:	1 ms per channel (multiplexed)	Current Consumption E-bus:	110 mA	Dimensions (w X H X D):	12 mm x 100 mm x 68 mm
E-bus Feedthrough:	Yes	Housing Width:	12 mm	Input Channels:	8 single-ended
Input Impedance:	>= 100 k?	Input Voltage Range:	0...10 V	Installation Position:	Variable
Isolation Voltage:	500 V	Max Current Load:	10 A	Max Relative Humidity:	95%
Max Voltage:	60 VDC	Mounting Rail Width:	35 mm	Operating Temperature:	0...55 °C
Pe Contact:	No	Points Per Potential:	8	Power Contact Feedthrough:	Yes
Process Image Width:	0 Bit	Protection Class:	IP20	Resolution:	16 bits
Separate Potentials:	2	Signal Type:	0...10 V analog voltage input	Solid Wire Connection:	Direct Plug-In
Special Features:	With timestamp, EtherCAT I/O Terminal	Terminal Points:	16	Last Verified:	10/24/2026 10:23 AM

Contact Us

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Shipping Options



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