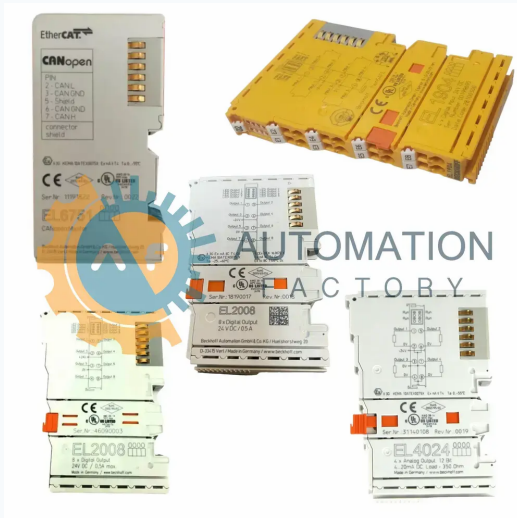




Beckhoff — EL EtherCAT Terminals

EL9182



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The **EL9182** is a power distribution EtherCAT terminal manufactured by Beckhoff as part of the EL EtherCAT Terminals series. In an automation line, the module introduces multiple isolated supply groups into the I/O strand while passing internal E-bus signals to downstream stations. By integrating power routing with continuous fieldbus communication, it saves cabinet space and reduces wiring time in control panels where compact, DIN-rail-mounted components are required.

The housing is **12 mm** wide, allowing sixteen supply connections to be installed without requiring substantial rail space. An isolation rating of **500 V** separates the potential groups from the control electronics, limiting cross-fault energy between field circuits. Each power contact can carry up to **10 A**, allowing the unit to feed sensors, valves, or small drives directly from the I/O node. The operating voltage is limited to **60 VDC**, making the terminal suitable for common 24 V or 48 V plant supplies. The enclosure has an **IP20** protection rating, providing finger-safe terminals for use inside closed switchgear while relying on cabinet airflow for cooling.

The terminal provides **16 connection points** that are internally organized into **8 separate potentials**. Each potential group has **2 connection points**, allowing incoming and outgoing conductors to be looped without external jumpers. The module snaps onto a **35 mm DIN rail** and can be installed in any mounting orientation, simplifying installation in densely populated enclosures. Spring-cage plug-in contacts provide secure field wiring and maintain connection stability under vibration. Power-contact and E-bus feedthroughs keep downstream terminals energized and addressable. The design tolerates ambient relative humidity of up to 95 percent when condensation

is prevented.

Specifications

Approvals/markings:	CE, UL	Connection Method:	Direct Plug-In, Spring	Current Load:	Max. 10 A
Dimensions (W x H x D):	12 mm x 100 mm x 68 mm	E-bus Feedthrough:	Yes	E-bus Looped Through:	Yes
Housing Width:	12 mm	Installation:	35 mm DIN rail, EN 60715	Installation Position:	Variable
Isolation Voltage:	500 V	Material:	Polycarbonate	Max Current Load:	10 A
Max Nominal Voltage:	60 VDC	Max Relative Humidity:	95%	Mounting Rail:	35 mm
Nominal Voltage:	<= 60 V AC/DC	Number Of Separate Potentials:	8	Operating Temperature:	-25...+60°C
Pe Contact:	No	Points Per Potential:	2	Power Contact Feedthrough:	Yes
Power Contacts Looped Through:	Yes (2 power contacts)	Protection Class:	IP20	Separate Potentials:	8
Special Features:	8 x 2-way bridge	Storage Temperature:	-40...+85°C	Terminal Points:	16
Terminal Points Per Potential:	2	Weight:	Approx. 60 g	Last Verified:	10/23/2026 11:47 PM

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