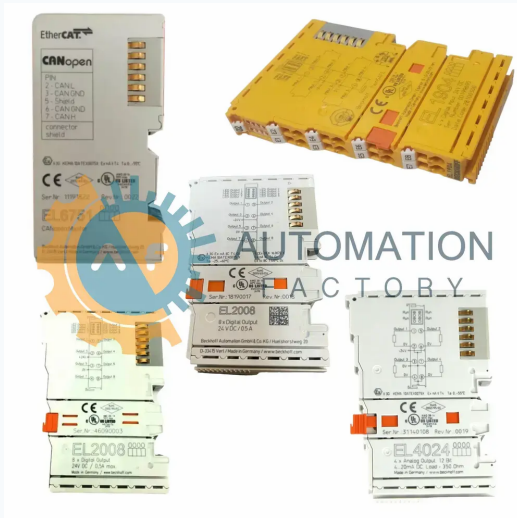




Beckhoff — EL EtherCAT Terminals

EL3122



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The **EL3122** is a two-channel analog input module produced by Beckhoff as part of the EL EtherCAT Terminals series. Designed for DIN-rail installation inside decentralized control cabinets, the terminal digitizes process currents from field transmitters and forwards the data to an EtherCAT controller in real time. By converting 4-20 mA signals into 16-bit values, it facilitates precise monitoring of pressure, flow, and level loops in industrial automation.

Each channel is electrically isolated, and the terminal offers a total of **2** differential inputs referenced to a common ground path. The 16-bit sigma-delta converter provides a digital resolution of **16 bits**, allowing the PLC to detect small changes in loop current. The accepted signal amplitude covers the industry-standard range of **4-20 mA**, while an internal resistance of 85 Ω develops the corresponding voltage drop inside the device. Absolute linearity is maintained within **$\pm 0.3\%$ FS**, limiting scaling errors during calibration. Transient disturbances are attenuated by an input filter set to **5 kHz**, while the simultaneous sampling architecture and Distributed Clocks feature keep both channels aligned with sub-microsecond timing. At the field wiring point, the module can conduct up to 40 mA without overloading the contacts.

The input stage tolerates a common-mode offset of up to **10 V maximum**, enabling reliable operation near high-power drives. The operating temperature range extends from **-25 to +60 °C**, and the housing can withstand storage temperatures as low as -40 °C. Protection against accidental contact is provided by the **IP20** enclosure, and the 12 mm-wide body mounts on a 35 mm DIN rail according to EN 60715. Internal electronics draw a typical current of **170 mA** from the E-bus, allowing several terminals to be daisy-chained without exceeding the EtherCAT

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coupler's power budget. Process data are transferred to the controller image as a 2 × 16-bit value accompanied by channel status information.

Specifications

Analog Inputs:	2	Common Mode Voltage:	10 V max.	Connection Type:	2-wire
Conversion Time:	<= 1 ms	Current Consumption (e-bus):	Approx. 100 mA	Dc Precision:	<<1 μs
Dimensions (w X H X D):	15 mm x 100 mm x 68 mm	Distributed Clocks:	Yes	E-bus Current:	170 mA typ.
Ground Reference:	Differential	Input Contact Current:	40 mA max.	Input Filter Limit:	5 kHz
Input Filter Limit Frequency:	5 kHz	Input Impedance:	200 k?	Input Type:	Voltage, single-ended
Input Voltage Range:	±10 V	Internal Resistance:	85 ? typ.	Max Signal Terminal Current:	40 mA
Measuring Error:	<±0.3% FS	Mounting:	35 mm DIN rail (EN 60715)	Number Of Channels:	2
Operating Temperature:	-25...+60 °C	Power Supply:	from E-bus	Process Image:	2 x 16 bit + 2 x 8 bit
Process Image Width:	Inputs: 2 x 16 bit; Status: 2 x 8 bit	Protection Class:	IP20	Resolution:	16 bit
Sampling Type:	Simultaneous	Signal Current:	4...20 mA	Signal Leds:	2 (per channel)
Storage Temperature:	-40...+85 °C	Type:	Analog input terminal	Last Verified:	10/24/2026 10:17 AM

Contact Us

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