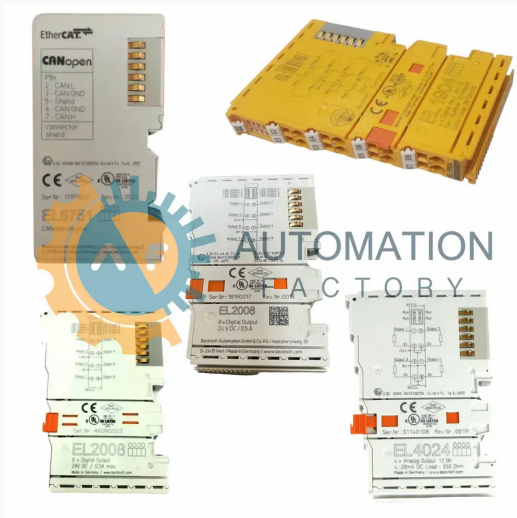




Beckhoff — EL EtherCAT Terminals

EL3041



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The **EL3041** analog input terminal is produced by Beckhoff and belongs to the EL EtherCAT Terminals series. The unit occupies one slot on a standard bus coupler and converts a current loop signal into digital data for a machine controller. By conditioning a single 0-20 mA process variable, the terminal provides plant operators with real-time feedback required for closed-loop control of pumps, temperature regulators, or position sensors within distributed industrial automation networks.

One analog channel is available, and its conversion hardware delivers a native resolution of **12 bits**, while the resulting value is forwarded in a **16 bit** format that aligns with EtherCAT process images. Acquisition is performed in a simultaneous mode, so timing is unaffected by bus jitter. The internal filter attenuates frequencies above **1 kHz**, limiting noise induced on long sensor lines. Current from the source may vary between **0 mA** and **20 mA**, allowing measurements across the full input range. The input is single-ended, sharing the module ground with the plant reference. After each scan, the terminal maps two status bytes and two value bytes into the controller's memory for deterministic access.

Electrical isolation between the terminal circuitry and the sensor loop is specified for **30 V**, matching typical extra-low-voltage installations. Internal electronics draw power exclusively from the **E-Bus**, so additional feed lines are unnecessary. The polycarbonate housing snaps onto a **35 mm DIN rail**, and its **IP20** protection category prevents finger ingress yet allows airflow for natural cooling. Because Distributed Clocks are not supported, time-critical tasks must rely on cycle-accurate updates scheduled by the network master rather than on hardware time stamping.

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within the module.

Specifications

Analog Inputs:	1	Connection Technology:	2-wire	Current Consumption On E-bus:	Typically 100 mA
Current Consumption Sensor Supply:	All current supplied to the sensors	Data Presentation:	16 bits	Dielectric Strength:	30 V
Dimensions (w X H X D):	15 x 100 x 68 mm	Distributed Clocks:	No	Electronics Supply:	E-Bus
Filter Cutoff:	1 kHz	Ground Reference:	Single-Ended	Input Current:	3.0 mA (per channel)
Input Filter:	3.0 ms standard	Input Type:	Digital (24 V DC, type 2/3)	Max Signal Current:	20 mA
Min Signal Current:	0 mA	Mounting Rail:	35 mm	Number Of Inputs:	4
Operating Temperature Range:	0...55°C	Process Image:	2 B status + 2 B value	Protection Rating:	IP20
Resolution:	12 bits	Sampling Type:	Simultaneous	Sensor Supply Current:	Up to 0.5 A total
Sensor Supply Voltage:	24 V DC	Vibration/shock Resistance:	According to EN 60068-2-6 / EN 60068-2-27	Last Verified:	10/23/2026 9:08 PM

Contact Us

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