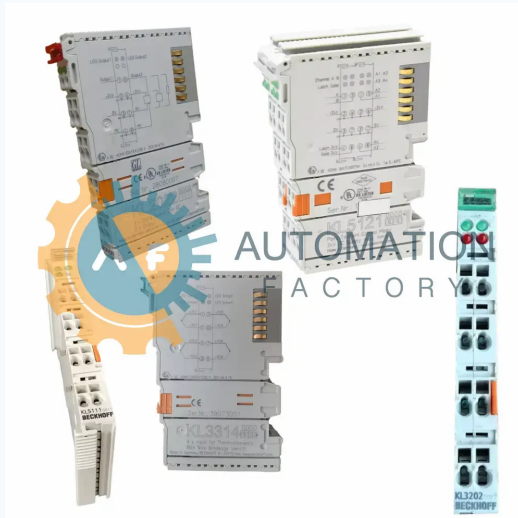


Beckhoff — KL Analog Input Modules

KL4112



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The **KL4112** is an analog terminal from Beckhoff that belongs to the KL Analog Output Modules series and is intended for DIN-rail-mounted control cabinets. Acting as a current interface between a Bus Coupler or EtherCAT Coupler and field actuators, it converts digital process data from the controller into precisely regulated milliampere signals. This function lets a PLC drive valves, positioners, or similar devices that use standardized current loops, integrating them directly into decentralized I/O stations without the need for separate signal converters.

For each channel, the terminal provides a default resolution of **15 bits**, giving 32,768 discrete steps across the output span so fine setpoints can be applied to proportional equipment. The programmable range extends from **0 mA to 20 mA**, supporting common 4-20 mA and 0-20 mA loops. Internal circuitry maintains the output as long as the connected load remains **less than 500 Ω**. Process data are exchanged over the K-bus in blocks of **2 × 16 bits**, allowing both channels to be updated simultaneously with status information in a single cycle. A built-in watchdog resets both outputs to a safe state if no new command is received within **100 ms**, preventing unintended actuator drift.

The terminal draws its logic and driver power through the backplane at **24 VDC through power contacts**, eliminating separate field wiring and reducing panel space. It snaps onto a **35 mm** mounting rail, matching the mechanical arrangement used by other Beckhoff slice modules so mixed-signal stations can be assembled end to end. The **IP20** enclosure protects against accidental contact with internal components while permitting installation in protected control cabinets. The unit operates from **0 °C to +55 °C**, and its two independent outputs remain

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accurate when the ambient temperature fluctuates within this range. Long-term storage is permitted from -25 °C to +85 °C.

Specifications

Approvals/markings:	CE, CCC, UL, ATEX, IECEx	Bit Width In The Process Image:	output: 2 x 16 bit data (2 x 8 bit control/status optional)	Conversion Time:	~ 3.5 ms
Current Consumption K-bus:	typ. 60 mA	Current Consumption Power Contacts:	typ. 50 mA + load	Default Resolution:	15 bits
K-bus Output Width:	2 x 16 bits	Load:	< 500	Max Load:	< 500 ?
Mounting Rail:	35 mm	Number Of Outputs:	2	Operating Temperature:	0 °C to +55 °C
Output Current:	0 mA to 20 mA	Output Error:	< A~0.1% (relative to end value)	Power Supply:	24 VDC via power contacts
Protection Rating:	IP20	Resolution:	15 bit, configurable to 16 bit	Signal Current:	0A-20 mA
Special Features:	increased resolution	Storage Temperature:	-25 °C to +85 °C	Watchdog Timeout:	100 ms
Last Verified:	10/25/2026 5:31 PM				

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Shipping Options



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