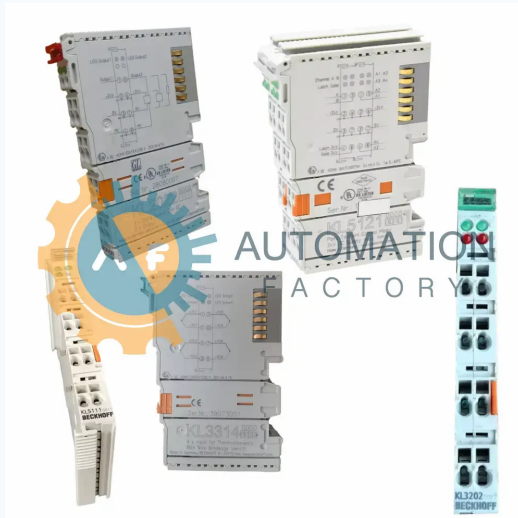


Beckhoff — KL Analog Input Modules

KL3044



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The **KL3044** analog input terminal is produced by Beckhoff for the KL Analog Input Modules series. It is designed for industrial automation tasks that require reliable current acquisition from field transmitters. By translating loop signals into digital data that a controller can process, the unit eliminates separate signal conditioners while keeping wiring decentralized. Four single-ended measurement paths are provided, and the terminal installs directly beside other I/O terminals on a bus coupler, allowing systems to expand in 12 mm increments without relocating equipment.

Each channel samples the incoming current every **2 ms**, allowing fast trend recognition in closed-loop control. The successive-approximation conversion stage provides **12-bit resolution**, delivering fine measurement granularity across the supported current span. The module accepts the standard instrumentation range of **4-20 mA**, and values outside this range are detected as underrange or overrange conditions. Signal lines encounter an input impedance of **80 Ω**, limiting voltage drop and maintaining transmitter compliance voltage. The analog circuits share a common return because the channels use single-ended wiring. The compact design also allocates space for **4 status bits** in the process image, allowing the controller to monitor channel conditions alongside the measured values.

The housing clips onto a **35 mm DIN rail**, providing secure installation in a protected control cabinet. Operating power is supplied automatically **via the K-bus**, so the terminal does not require a separate supply jumper. The **IP20 enclosure rating** makes the terminal suitable for clean, protected panels where it is shielded from water and small foreign objects. The electronic data area presented to the controller occupies **4 x 16 bits + 4 x 8 bits**,

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supporting the transfer of analog measurements and associated control or status information through the bus system.

Specifications

Approvals/certifications:	CE, CCC, UL, ATEX, IECEx, DNV GL	Bit Width In Process Image:	Input: 4 x 16 bit data (4 x 8 bit optional)	Conversion Time:	2 ms
Current Consumption (k-bus):	typ. 65 mA	Input Type:	Single-Ended	Internal Resistance:	80 ?
Measurement Error/uncertainty:	< ±0.3% (relative to full scale value)	Mounting Rail:	35 mm DIN Rail	Number Of Inputs:	4
Operating Temperature Range:	0...55°C	Power Supply:	Via K-Bus	Process Image Width:	4 x 16 Bit + 4 x 8 Bit
Protection Class:	IP20	Resolution:	12 Bit	Signal Current:	4...20 mA
Surge Voltage Resistance:	max. 35 V	Weight:	Approx. 70 g	Last Verified:	10/24/2026 1:25 PM

Contact Us

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Shipping Options



Payment Methods



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