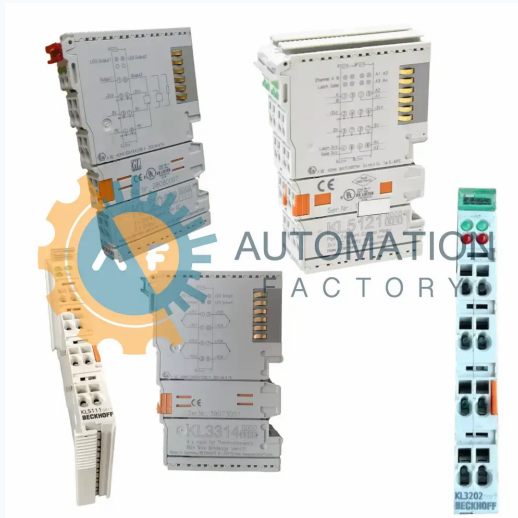


Beckhoff — KL Analog Input Modules

KL3314-0012

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The **KL3314-0012** analog input terminal is manufactured by Beckhoff and belongs to the KL Analog Input Modules series. It is designed to collect low-level electrical measurements from field sensors and present them to a higher-level controller on the same I/O node. By adding this module to a bus terminal stack, machine builders can integrate precision voltage or millivolt readings into PLC-based automation routines while maintaining compact DIN-rail installation.

The module offers **4 input channels**, each wired through a **2-wire connection** that carries both the signal and its common reference. The four channels provide a combined word length of **4 x 16 bits**, so the controller receives 16-bit data from each sensor. Measurement accuracy is specified at **< ±0.5% FS**, indicating that the worst-case deviation over the full scale stays within half a percent. Temperature measurements have a resolution of **0.1 °C per digit**, allowing small changes to be detected when thermocouples or similar sources are attached. Open-circuit detection is built in, so the application can identify a broken sensor lead without extra wiring. The terminal supports a variable installation position, providing flexibility in confined control cabinets. Its circuitry also supports millivolt measurements from low-level instrumentation signals.

During cyclic operation, the bus coupler transmits **8 bytes** of process data representing the four channels, while an optional status stream of four 8-bit words can be enabled for detailed diagnostics. A first-order notch filter at **25 Hz** is implemented in the conversion path to suppress line noise. The programmable digital filter has a default coefficient of **0x0000**, allowing its settling behavior to be adjusted through the fieldbus. The terminal has an **IP20**

protection rating, so it must be mounted in an enclosure. Its slim housing and variable orientation leave space for neighboring terminals within the I/O assembly.

Specifications

Connection Method:	2-wire	Connection Technology:	2-wire	Conversion Time:	~250 ms
Default Thermocouple Type:	K	Filter Constant:	0x0000	First Notch:	25 Hz
Input Data Width:	4 x 16 bits	Input Process Data:	8 bytes	Installation Position:	Variable
K-bus Current Consumption:	75 mA (typical)	Measurement Uncertainty:	<±0.5% FS	Measuring Error:	< ±0.5 % FS
Mv Measurement:	Yes	mV Measurement Range:	±30...±120 mV	Number of Inputs:	4
Open-circuit Recognition:	Yes	Operating Temperature Range:	0...55°C	Optional Status Width:	4 x 8 bits
Power Supply:	via K-bus	Process Image Control/Status Bit Width:	4x8 bit (optional)	Process Image Data Bit Width:	4x16 bit
Protection Class:	IP20	Protection Rating:	IP20	Resolution:	0.1 °C/digit
Storage Temperature Range:	-25...+85°C	Supported Sensor Types:	Thermocouples (J,K,L,B,E,N,R,S,T,U), mV measurement	Type K Temperature Range:	- 100...+1370°C
Last Verified:	10/25/2026 10:16 AM				

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