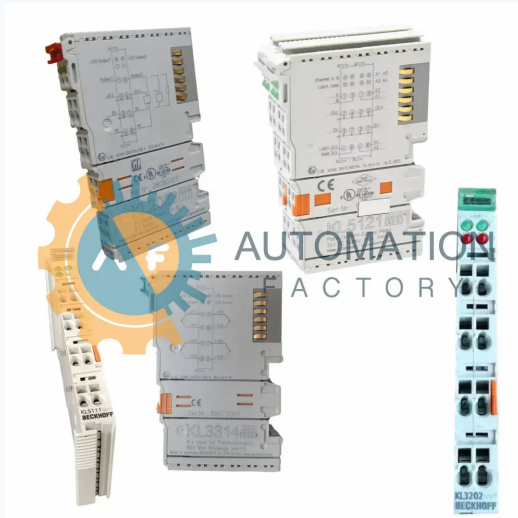


Beckhoff — KL Analog Input Modules

KL1712

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The **KL1712** is an input terminal manufactured by Beckhoff for the KL Analog Input Modules series. It is installed on a Bus Terminal rack to route field signals into a controller without requiring external transducers. This arrangement is useful in compact industrial automation panels where channel density, organized wiring, and efficient use of enclosure space are priorities.

This module provides **two inputs**, allowing two separate sensors or switches to be monitored. Each channel uses a **4-wire connection**, so the supply voltage and signal return are carried alongside the measurement lines. This connection method simplifies the wiring of powered field devices such as proximity sensors. The terminal has a switching time of **10 ms**, allowing state changes to be reported to the PLC at intervals of that length. The housing has a width of **15 mm**, a height of **100 mm**, and a depth of **70 mm**. These dimensions match neighboring KL terminals, allowing mixed racks to be assembled without spacer elements. The installation position is variable, so the unit can be mounted horizontally or vertically according to the available DIN rail space. Two signal LEDs on the front indicate the live state of the channels, making channel activity visible during operation and helping users locate field-side faults.

The terminal has an **IP20** protection rating, making it finger-safe while requiring installation inside an enclosure for protection from dust, moisture, and other contaminants. Data sent to the controller occupies **2 input bits** in the process image, conserving bus bandwidth in systems with many connected terminals. One bit corresponds to each channel state, which keeps the controller mapping compact and easy to interpret. Field wiring connects to screw

contacts across **8 terminal points**, providing separate clamping locations for the supply, return, and signal conductors associated with each input channel.

Specifications

"0" Signal Voltage:	0...40 V	"1" Signal Voltage:	80...140 V	Bit Width In The Process Image:	2 inputs
Connection Technology:	4-wire	Current Consumption (k-bus):	typ. 3 mA	Depth:	70 mm
Height:	100 mm	Input Current:	> 3 mA, typ. 6 mA	Input Filter:	typ. 10 ms
Installation Position:	Variable	Nominal Voltage:	120 V AC/DC	Number Of Inputs:	2
Operating Temperature:	0...55°C	Process Image Width:	2 input bits	Protection Class:	IP20
Protection rating:	IP20	Relative Humidity:	0.95	Signal Led Count:	2
Storage Temperature:	-25...+85°C	Switching Time:	10 ms	Switching Times:	10 ms
Terminal Point Count:	8	Weight:	approx. 60 g	Width:	15 mm
Last Verified:	10/24/2026 6:51 AM				

Contact Us

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