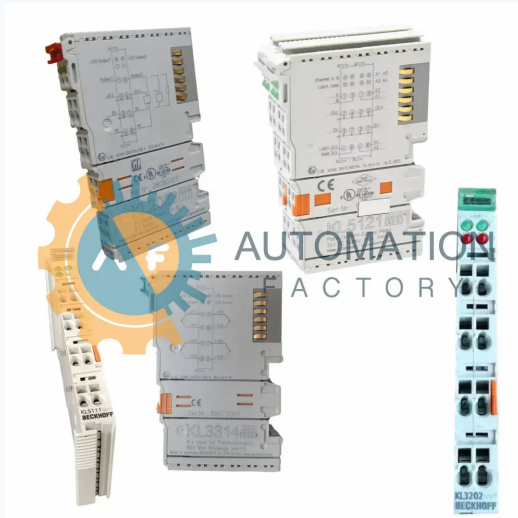


Beckhoff — KL Analog Input Modules

KL1819

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Warranty

The **KL1819** is a digital input terminal manufactured by Beckhoff for the KL Digital Input Terminals series. It acquires binary field signals across multiple channels and transfers their states to the automation controller through the system K-bus. By combining multiple sensor lines into one compact terminal, the unit reduces cabinet wiring without requiring additional configuration before operation.

The terminal operates from a nominal field supply of **24 VDC**. Each channel draws an input current of **3 mA**, allowing direct connection of compatible field devices without overloading their outputs. The internal input filter is set to **0.2 ms**, which suppresses brief signal disturbances while capturing fast switching events. Signal lines use the single-ended **1-wire** connection method, minimizing terminal points and simplifying installation. A total of **16 channels** gives the controller a process image width of 16 bits. No software adjustment is necessary because the module is supplied with fixed parameters. Its variable installation position allows it to be mounted in any orientation permitted by the surrounding enclosure and terminal arrangement.

Backplane loading remains low because the K-bus requires only **20 mA**, allowing many terminals to share a power segment. The housing measures **15 mm × 100 mm × 70 mm**, supporting dense installation inside control enclosures. It has an **IP20** protection rating, making it suitable for clean electrical cabinets while permitting convenient access to the conductor connections. Its electrical characteristics comply with the **EN 61131-2 Type 1/3** input standard, providing compatibility with the corresponding PLC signal levels. Solid, stranded, and ferrule-terminated conductors can be connected to the terminal. The process image is updated automatically during each

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bus cycle without additional user intervention.

Specifications

"0" Signal Voltage:	-3...+5 V (EN 61131-2, type 1/3)	"1" Signal Voltage:	11...30 V (EN 61131-2, type 3)	Bit Width In Process Image:	16 inputs
Conductor Types:	Solid, Stranded, Ferrule	Configuration Required:	None	Connection Technology:	1-wire
Current Consumption K-bus:	typ. 20 mA	Current Consumption Power Contacts:	typ. 4 mA + load	Dimensions (w X H X D):	15 mm x 100 mm x 70 mm
Input Current:	3 mA	Input Filter:	0.2 ms	Installation Position:	Variable
K-bus Current:	20 mA	Nominal Voltage:	24 VDC	Number Of Inputs:	16
Operating Temperature:	-25...+60°C	Process Image Width:	16 inputs	Protection Class:	IP20
Signal Standard:	EN 61131-2 Type 1/3	Specification:	EN 61131-2, type 1/3	Storage Temperature:	-40...+85°C
Warranty:	One-year	Weight:	approx. 60 g	Last Verified:	10/24/2026 1:39 PM

Contact Us

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