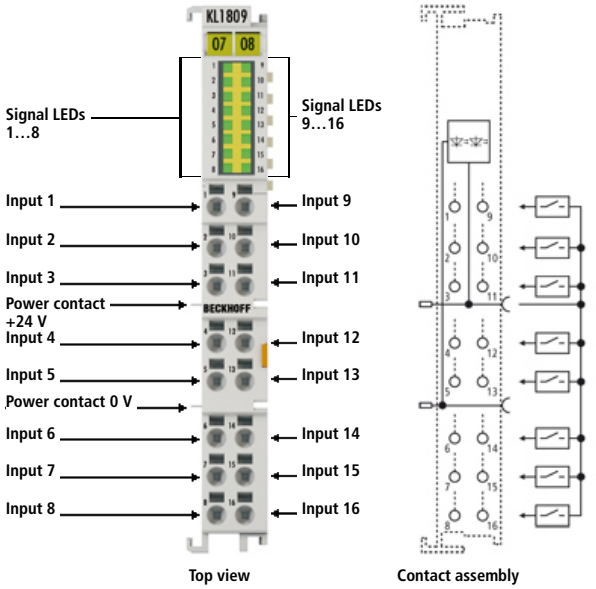

KL1809, KL1819 | HD Bus Terminals, 16-channel digital input 24 V DC

The KL1809 and KL1819 digital input terminals acquire the binary control signals from the process level and transmit them, in an electrically isolated form, to the higher-level automation device. The Bus Terminals each contain 16 channels, whose signal states are displayed by LEDs. The terminals are particularly suitable for space-saving use in control cabinets. By using the single-conductor connection technique, a multi-channel sensor can be connected in the smallest space with a minimum amount of wiring. The power contacts are looped through.

For the KL1809 and KL1819 Bus Terminals, the reference ground for all inputs is the 0 V power contact. The versions have input filters with different speeds. The conductors can be connected without tools in the case of solid wires using a direct plug-in technique.

The HD Bus Terminals (High Density) with increased packing density feature 16 connection points in the housing of a 12 mm terminal block.

Technical data	KL1809	KL1819
Connection technology	1-wire	
Specification	EN 61131-2, type 1/3	
Number of inputs	16	
Nominal voltage	24 V DC (-15 %/+20 %)	
"0" signal voltage	-3…+5 V (EN 61131-2, type 1/3)	
"1" signal voltage	11…30 V (EN 61131-2, type 3)	
Input filter	typ. 3.0 ms	typ. 0.2 ms
Input current	typ. 3 mA (EN 61131-2, type 3)	
Current consumpt. K-bus	typ. 20 mA	
Current consumption power contacts	typ. 4 mA + load	
Electrical isolation	500 V (K-bus/field potential)	
Bit width in the process image	16 inputs	
Configuration	no address or configuration setting	
Conductor types	solid wire, stranded wire and ferrule	
Conductor connection	solid wire conductors: direct plug-in technique; stranded wire conductors and ferrules: spring actuation by screwdriver	
Rated cross-section	solid wire: 0.08…1.5 mm²; stranded wire: 0.25…1.5 mm²; ferrule: 0.14…0.75 mm²	
Weight	approx. 60 g	
Operating/storage temperature	0…+55 °C/-25…+85 °C	
Relative humidity	95 %, no condensation	
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27/29	
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4	
Protect. class/installation pos.	IP 20/variable (see documentation)	
Approvals	CE, UL, Ex	