Top view   Contact assembly
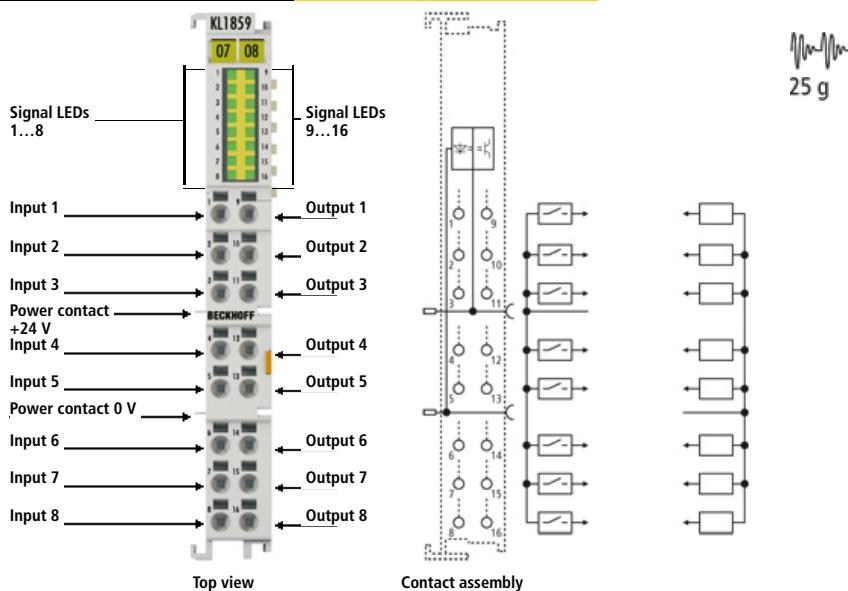
KL1859 | HD Bus Terminal, 8-channel digital input + 8-channel digital output 24 V DC

The digital KL1859 Bus Terminal combines eight digital inputs and eight digital outputs in one device. The inputs have a filter of 3.0 ms. The outputs process load currents up to 0.5 A, are short-circuit-proof and protected against polarity reversal. The signal states are displayed by LEDs.

The reference ground for all inputs is the 0 V power contact, the outputs are fed via the 24 V power contact. 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	KL1859
Connection technology	1-wire
Specification	EN 61131-2, type 1/3
Number of channels	8 inputs + 8 outputs
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
Input current	typ. 3 mA (EN 61131-2, type 3)
Load type	ohmic, inductive, lamp load
Max. output current	0.5 A (per channel)
Reverse voltage protection	yes
Current consumpt. K-bus	typ. 25 mA
Current consumption power contacts	typ. 15 mA + load
Electrical isolation	500 V (K-bus/field potential)
Bit width in the process image	8 inputs + 8 outputs
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
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, GL