



## KL1872 | 16-channel digital input terminal 24 V DC, type 3, flat-ribbon cable connection

The KL1872 digital input terminal offers a very compact design with its 16 channels. A 20-pin connector enables the secure connection of plug connectors using insulation displacement contact, as is usual for ribbon cables and special round cables. This significantly simplifies the wiring of many channels. The input characteristic conforms to the type 3 specification and guarantees minimum power dissipation. 16 LEDs display the logical signal states of the inputs.

Technical data	KL1872
Connection technology	flat-ribbon cable
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)
"0" signal current	0...1.5 mA
"1" signal current	2.0...2.5 mA
Input filter	typ. 0.2 ms
Current consumption K-bus	typ. 3 mA
Current consumption power contacts	typ. 4 mA from the 24 V supply (no power contacts)
Electrical isolation	500 V (K-bus/field potential)
Bit width in the process image	16 inputs
Configuration	no address or configuration setting
Weight	approx. 50 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
Approvals	CE, UL, Ex

Related products	
<b>KL1862</b>	16-channel digital input terminal 24 V DC, filter 3.0 ms, flat-ribbon cable connection, type 3
<b>KL1862-0010</b>	16-channel digital input terminal 24 V DC, filter 3.0 ms, flat-ribbon cable connection, switching to ground potential