



KL1412 | 2-channel digital input terminal 24 V DC, type 3

The KL1412 complements the proven KL1404, KL1414, KL1408 and KL1418 digital input terminals with their type 3 specification. The current/voltage characteristics have been optimised for 2-wire sensors. The input current in low state is increased to a minimum value of 1.5 mA and therefore supports the majority of commercially available 2-wire sensors. A typical value for the energy-saving high current is 2.2 mA. The input complies with the EN 61131-2 type 3 standard and is compatible with type 1.

Technical data	KL1412 KS1412
Connection technology	4-wire
Specification	EN 61131-2, type 1/3
Number of inputs	2
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. 1 mA + load
Electrical isolation	500 V (K-bus/field potential)
Bit width in the process image	2 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
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals	CE, UL, Ex, GL