



## KL1212 | 2-channel digital input terminal 24 V DC with short-circuit protected sensor supply and diagnostics

The KL1212 digital input terminal acquires the binary control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. The KL1212 generates a short-circuit protected 24 V DC supply voltage for sensors. The sensor outputs can be switched on or off by the controller. A short-circuit or an open lead in the sensor supply is detected, and the terminal status is relayed to the controller via the K-bus. The Bus Terminal contains two channels that indicate their signal state and errors by means of LEDs.

Technical data	KL1212   KS1212
Connection technology	3-wire
Specification	EN 61131-2, type 1
Number of inputs	2
Nominal voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	-3...+5 V
"1" signal voltage	15...30 V
Input filter	typ. 3.0 ms
Input current	typ. 5 mA
Sensor supply max.	0.5 A (short-circuit-proof)
Current consumpt. K-bus	typ. 8 mA
Electrical isolation	500 V (K-bus/field potential)
Bit width in the process image	input/output: 4 inputs (2 error bits/2 signal bits); 2 outputs (2 sensor supply)
Input/output bit assignments	input: bit 3 err. 2 bit 2 err. 1 bit 1 on 2 bit 0 on 1 output: bit 1 off 2 bit 0 off 1
Configuration	no address or configuration setting
Weight	approx. 55 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



### Product announcement

KL1212: available  
KS1212: estimated market release on request