



KL1418 | 8-channel digital input terminal 24 V DC

The digital input terminal KL1418 acquires the binary control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. The Bus Terminal contains eight channels which indicate their signal state by means of light emitting diodes. It is particularly suitable for space-saving use in control cabinets. By using the single-ended 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 KL1418, the reference ground for all inputs is the 0 V power contact.

Technical data	KL1418 KS1418
Connection technology	1-wire
Specification	EN 61131-2, type 1/3
Number of inputs	8
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. 5 mA
Current consumption power contacts	typ. 2 mA + load
Electrical isolation	500 V (K-bus/field potential)
Bit width in the process image	8 inputs
Configuration	no address or configuration setting
Weight	approx. 55 g
Operating/storage temperature	-25...+60 °C/-40...+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