



KL1232 | 2-channel digital input terminal 24 V DC with edge triggered pulse expansion

The KL1232 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 KL1232 has an input circuit that extends plus-switched signals, triggered on the rising edge, to 100 ms. The Bus Terminal contains two channels that indicate their signal state by means of LEDs. The KL1232 is particularly suitable for recording very short signals in control systems with a longer processing time than the signal length.

Technical data	KL1232 KS1232
Connection technology	4-wire
Specification	pulse expansion
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	0.2 ms
Input current	typ. 5 mA
Pulse expansion	100 ms
Current consumpt. K-bus	typ. 5 mA
Electrical isolation	500 V (K-bus/field potential)
Bit width in the process image	2 inputs
Configuration	no address or configuration setting
Special features	edge triggered pulse expansion
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

Special terminals	
KL1232-0001	plus-switching, positive edge-triggered input, 10 ms pulse extension, input filter 0.2 ms
KL1232-0002	plus-switching, positive edge-triggered input, 20 ms pulse extension, input filter 0.2 ms
KL1232-0010	plus-switching, positive edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-0100	plus-switching, negative edge-triggered input, 100 ms pulse extension, input filter 0.2 ms
KL1232-0110	plus-switching, negative edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-1000	negative switching, positive edge-triggered input, 100 ms pulse extension, input filter 0.2 ms
KL1232-1001	5 V, negative switching, negative edge-triggered input, 20 ms pulse extension, input filter 0.2 ms
KL1232-1010	negative switching, positive edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-1100	negative switching, negative edge-triggered input, 100 ms pulse extension, input filter 0.2 ms
KL1232-1110	negative switching, negative edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-2000	plus switching, positive edge-triggered input, 200 ms pulse extension, input filter 0.2 ms