



Two channel digital input terminal for power grids from 24 V to 230 V

The digital input terminals KL1702 and KL1712-00x0 acquire the binary control signals from the process level and transmit them, in an electrically isolated form, to the higher-level automation unit. It is possible to connect AC or DC actuators directly. The Bus Terminals contains two channels that indicate their signal state by means of light emitting diodes.

Technical data	KL1702-0000, KS1702-0000	KL1712-0000, KS1712-0000	KL1712-0010, KS1712-0010	KL1712-0060, KS1712-0060
Number of inputs	2			
Connection technology	4 wire			
Rated voltage	120 V _{AC} /230 V _{AC}	120 V _{AC/DC}	24 V _{AC/DC}	60 V _{DC}
"0" signal voltage	0 V ... 40 V		0 V ... 5 V	0 V ... 20 V
"1" signal voltage	79 V ... 260 V	80 V ... 140 V	14 V ... 28.8 V	40 V ... 70 V
Input filter	typ. 10 ms			
Current consumption from K-Bus	typ. 3 mA			
Switching time	10 ms			
Input current	> 3 mA, typ. 6 mA			
Electrical isolation	500 V (K-Bus / field potential)			
Bit width in the process image	2 input bits			
Configuration	no address or configuration setting necessary			
Appropriation fo	230 V grids	120 V grids	24 V grids	Railroad grids
Dimensions (w x h x d) / Weight	15 mm x 100 mm x 70 mm (aligned with 12 mm) / app. 60 g			
permissible ambient temperature range	during operation	0°C ... +55°C		
	uring storage	-25°C ... +70°C		
permissible relative humidity	5 %...95 %, no condensation			
Vibration / shock resistance	conforms EN 60068-2-6 / EN60068-2-27, EN 60068-2-29			
EMC resistance burst / ESD	conforms EN 61000-6-2 / EN 61000-6-4			
Mounting position / pluggable wiring	variable / for all KSxxxx Bus Terminals			
Protection class	IP20			
Approval	CE, cULus, ATEX*, GL	CE, cULus, ATEX*		CE, cULus

*) Pay also attention to the continuative documentation *Notes about operation of the Bus Terminal System in potentially explosive areas* (ATEX), that is available in the [download area](#) of the Beckhoff homepage!