

KL1702 | Bus Terminal, 2-channel digital input, 120...230 V AC, 10 ms

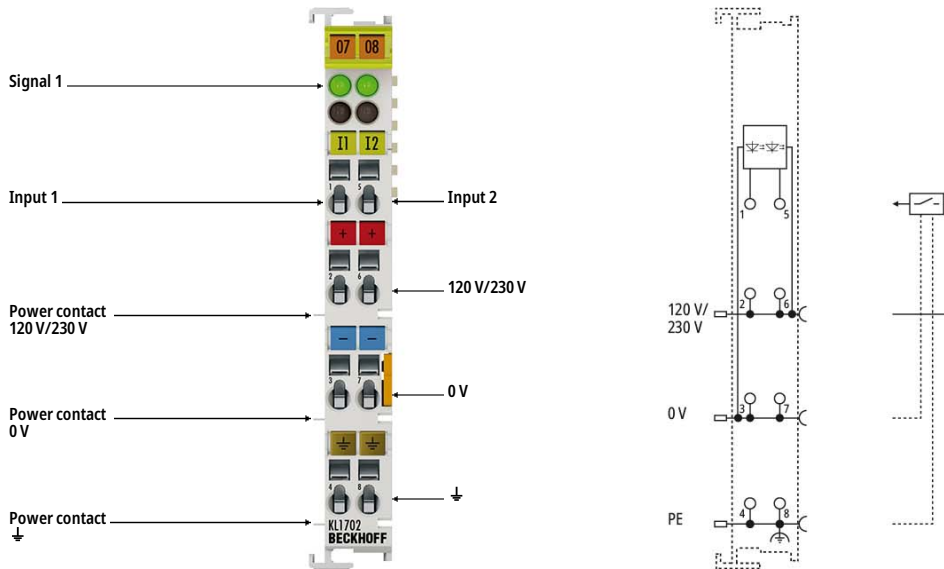
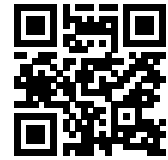


Image similar, may contain optional accessories

i **Product status:** regular delivery

The KL1702 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 direct connection of 120 V/230 V AC signals is possible. The Bus Terminal contains two channels that indicate its signal state by means of light emitting diodes.

Special features:

- direct connection of 120 V/230 V AC signals
- for AC voltage

In addition to the KL1702, there is the KL1702-0010 version with a 230 V AC input circuit and type 2 input characteristic.

Product information

Technical data

Technical data	KL1702
Connection technology	4-wire
Number of inputs	2
Nominal voltage	120/230 V AC
"0" signal voltage	0...40 V

"1" signal voltage	79...260 V
Input filter	typ. 10 ms
Input current	> 3 mA, typ. 6 mA
Current consumption K-bus	typ. 3 mA
Switching times	10 ms
Electrical isolation	500 V (K-bus/mains voltage); 3750 V AC, 1 min.
Bit width in the process image	2 inputs
Configuration	no address or configuration setting
Special features	ohmic/capacitive input behavior
Weight	approx. 60 g
Storage temperature	-25...+85°C
Operating temperature	0...55°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. rating/installation pos.	IP20/variable
Plug-in wiring level	for all KSxxxx Bus Terminals
Approvals/markings	CE, CCC, UL, ATEX, IECEX, DNV
Ex marking	ATEX: II 3 G Ex ec IIC T4 Gc IECEX: Ex ec IIC T4 Gc

Housing data	KL-12-8pin	KS-12-8pin
Design form	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock	
Side by side mounting by means of	double slot and key connection	
Marking	labeling of the BZxxxx series	
Wiring	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver	
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²	s*: 0.08...1.5 mm ² , st*: 0.08...1.5 mm ² , f*: 0.14...1.5 mm ²
Connection cross-section AWG	s*: AWG28...14, st*: AWG28...14, f*: AWG26...16	s*: AWG28...16, st*: AWG28...16, f*: AWG26...16

Stripping length	8...9 mm	9...10 mm
Current load power contacts	I _{max} : 10 A	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	

*s: solid wire; st: stranded wire; f: with ferrule

Ordering information

Ordering information	
KL1702	Bus Terminal, 2-channel digital input, 120...230 V AC, 10 ms
KS1702	Bus Terminal, 2-channel digital input, 120...230 V AC, 10 ms, pluggable wiring level
KL1702-0010	Bus Terminal, 2-channel digital input, 120...230 V AC, 10 ms, type 2