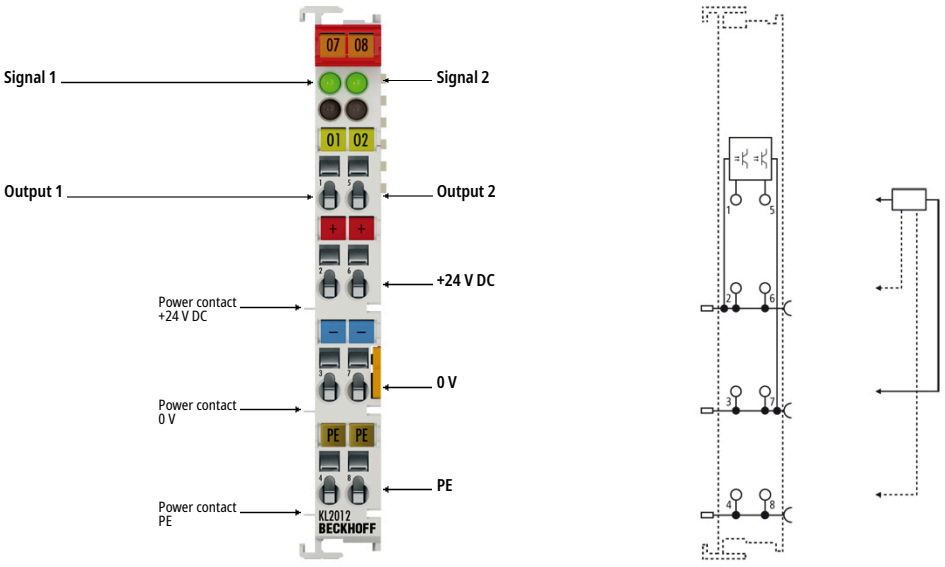
KL2012 | Bus Terminal, 2-channel digital output, 24 V DC, 0.5 A

Image similar, may contain optional accessories



KL2012 | Bus Terminal, 2-channel digital output, 24 V DC, 0.5 A

Product status: regular delivery

The KL2012 digital output terminal connects the binary control signals from the automation unit on to the actuators at the process level with electrical isolation. It handles different load currents, and its outputs are protected against overload and short-circuit. The Bus Terminal contains two channels that indicate their signal state by means of light emitting diodes.

Product information

Technical data

Technical data	KL2012
Connection technology	4-wire
Number of outputs	2
Nominal voltage	24 V DC (-15%/+20%)
Load type	resistive, inductive, lamp load
Max. output current	0.5 A (short-circuit proof) per channel
Short-circuit current	< 2 A
Switching-off energy	< 150 mJ/channel
Reverse polarity protection	–

Technical data	KL2012
Electrical isolation	500 V (K-bus/field potential)
Current consumption power contacts	typ. 15 mA + load
Current consumption K-bus	typ. 5 mA
Bit width in the process image	2 outputs
Configuration	no address or configuration setting
Weight	approx. 55 g
Operating temperature	0...55°C
Storage temperature	-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. rating/installation pos.	IP20/variable
Pluggable wiring level	for all KSxxxx Bus Terminals
Approvals/markings	CE, CCC, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx 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	
KL2012	Bus Terminal, 2-channel digital output, 24 V DC, 0.5 A
KS2012	Bus Terminal, 2-channel digital output, 24 V DC, 0.5 A, pluggable wiring level

Material Compliance

Material compliance	KL2012
REACH SVHC	no
POP	compliant
RoHS	compliant with exemption
RoHS exemption	7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
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