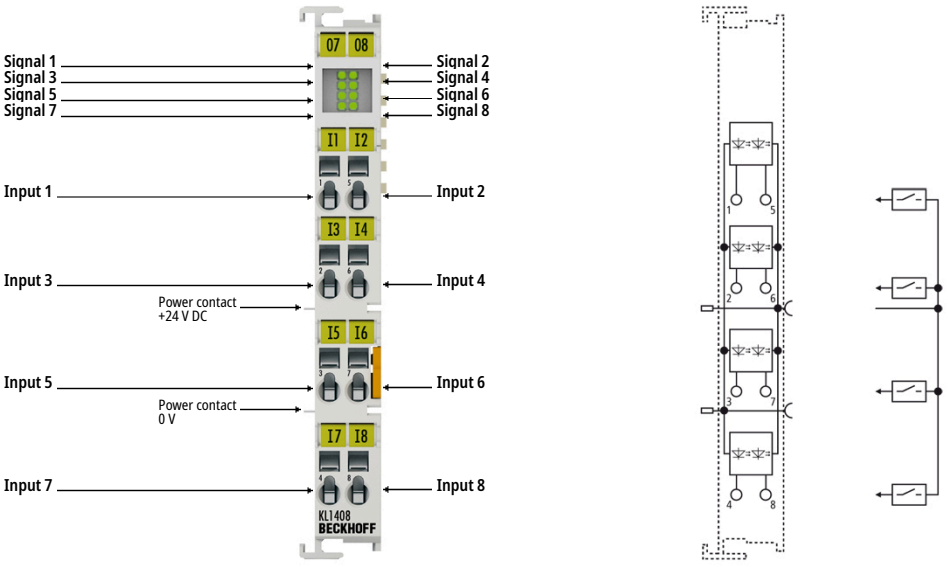
KL1408 | Bus Terminal, 8-channel digital input, 24 V DC, 3 ms, 1-wire connection

Image similar, may contain optional accessories



KL1408 | Bus Terminal, 8-channel digital input, 24 V DC, 3 ms, 1-wire connection

Product status: regular delivery

The KL1408 digital input terminal acquires the binary 24 V DC control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. Each Bus Terminal contains eight channels which indicate their signal state by means of light emitting diodes.

Special features:

- input specification type 1/3
- no bouncing due to mechanical switches thanks to 3 ms input filter

Product information

Technical data

Technical data	KL1408
Connection technology	1-wire
Specification	EN 61131-2, type 1/3
Number of inputs	8
Nominal voltage	24 V DC (-15%/+20%)
Signal voltage “0”	-3...+5 V (EN 61131-2, type 1/3)

Technical data	KL1408
Signal voltage “1”	11...30 V (EN 61131-2, type 3)
Input filter	typ. 3 ms
Input current	typ. 3 mA (EN 61131-2, type 3)
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
Storage temperature	-40...+85°C
Operating temperature	-25...+60°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, DNV, 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

Housing data	KL-12-8pin	KS-12-8pin
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	
KL1408	Bus Terminal, 8-channel digital input, 24 V DC, 3 ms, 1-wire connection
KS1408	Bus Terminal, 8-channel digital input, 24 V DC, 3 ms, 1-wire connection, pluggable wiring level

Material Compliance

Material compliance	KL1408
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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