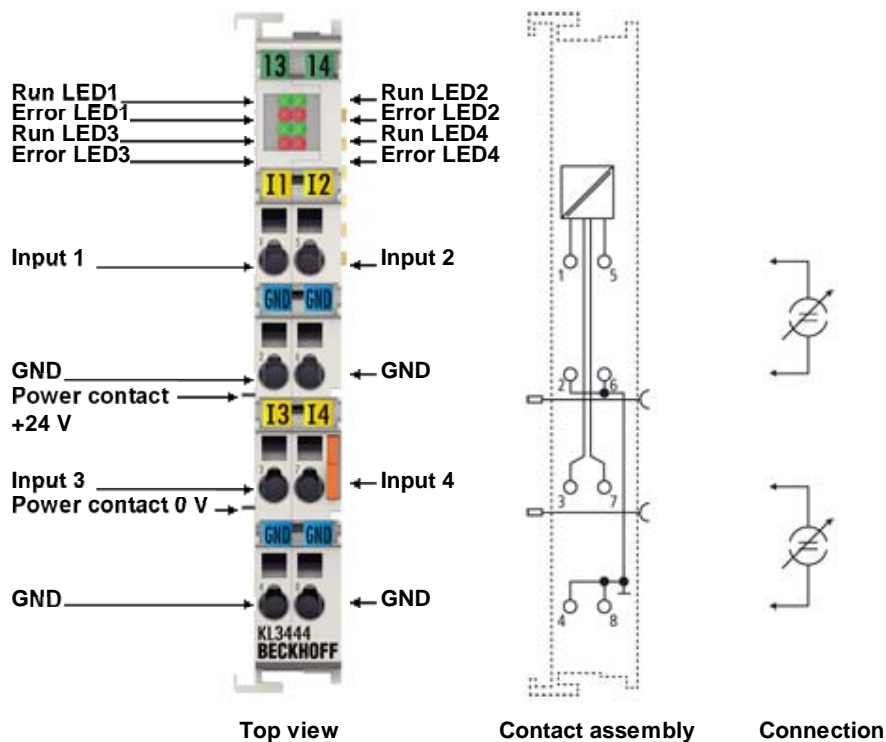


Analog Input KL3444, KL3448



KL3444, KS3444

KL3448, KS3448

KL3444, KL3448 | 4-, 8-channel analog input terminals 0...20 mA

The KL3444 and KL3448 analog input terminals process signals in the range between 0 and 20 mA. The current is digitised to a resolution of 12 bits and is transmitted, in an electrically isolated form, to the higher-level automation device. In the KL3444 Bus Terminal, the four inputs are 2-wire versions and have a common ground potential. The reference ground of the inputs is the internal ground. The KL3448 variant combines eight channels in one housing and is particularly suitable for space-saving installation in control cabinets. The use of single conductor connection technology enables the connection of multi-channel sensor technology with minimum space requirements. The reference ground for all inputs is the 0 V power contact. In both Bus Terminals the power contacts are connected through. Overload is detected in both variants. The terminal status is relayed to the controller via the K-bus. The LEDs indicate the data exchange with the Bus Coupler as well as overload or wire breakage.

Technical data	KL3444 KS3444	KL3448 KS3448
Number of inputs	4	8
Power supply	via the K-bus	
Signal current	0...20 mA	
Internal resistance	< 85 Ω	
Common-mode voltage U_{CM}	30 V max.	
Conversion time	~ 2 ms	~ 4 ms
Resolution	12 bits	
Measuring accuracy	< ± 0.3 % (relative to full scale value)	
Surge voltage resistance	30 V DC	
Electrical isolation	500 V (K-bus/signal voltage)	
Current consumption K-bus	typ. 85 mA	typ. 105 mA

Bit width in the process image	input: 4 x 16 bit data (4 x 8 bit control/status optional)	input: 8 x 16 bit data (8 x 8 bit control/status optional)
Configuration	no address or configuration setting	
Weight	75 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 60068-2-27/29	
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	

Product announcement **KL3444, KL3448: available**
KS3444, KS3448: estimated market release 1st quarter 2011

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