



KL3448 | 8-channel analog input terminal 0...20 mA

The KL3448 analog input terminal processes 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. The KL3448 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. The power contacts are connected through. Overload is detected. 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	KL3448 KS3448
Number of inputs	8
Power supply	via the K-bus
Signal current	0...20 mA
Technology	single-ended
Internal resistance	< 85 Ω
Common-mode voltage U_{CM}	–
Conversion time	~ 4 ms
Resolution	12 bit
Measuring error	< ± 0.3 % (relative to full scale value)
Surge voltage resistance	30 V DC
Electrical isolation	500 V (K-bus/signal voltage)
Current consumption power contacts	–
Current consumption K-bus	typ. 105 mA
Bit width in the process image	input: 8 x 16 bit data (8 x 8 bit control/status optional)
Configuration	no address or configuration setting
Special features	high packing density
Weight	approx. 55 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
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
Approvals	CE, UL, Ex, GL