



## KL3444 | 4-channel analog input terminal 0...20 mA

The KL3444 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. In the KL3444, the four inputs are 2-wire versions and have a common ground potential. The reference ground of the inputs is the internal ground. 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	KL3444   KS3444
Number of inputs	4
Power supply	via the K-bus
Signal current	0...20 mA
Technology	single-ended
Internal resistance	< 85 $\Omega$
Common-mode voltage $U_{cm}$	–
Conversion time	~ 2 ms
Resolution	12 bit
Measuring error	< $\pm 0.3$ % (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. 85 mA
Bit width in the process image	input: 4 x 16 bit data (4 x 8 bit control/status optional)
Configuration	no address or configuration setting
Special features	–
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