



KL4012 | 2-channel analog output terminal 0...20 mA

The KL4012 analog output terminal generates analog output signals in the range from 0 to 20 mA. The power is supplied to the process level with a resolution of 12 bits and is electrically isolated. Ground potential for the output channels of the Bus Terminal is common with the 24 V DC supply. The output stages are powered by the 24 V supply. The run LEDs give an indication of the data exchange with the Bus Coupler.

Technical data	KL4012 KS4012
Technology	single-ended
Number of outputs	2
Power supply	24 V DC via power contacts (alternative 15 V DC with power supply terminal KL9515)
Signal current	0...20 mA
Load	< 500 Ω
Output error	< ±0.1 % (relative to end value)
Resolution	12 bit
Conversion time	~ 1.5 ms
Electrical isolation	500 V (K-bus/signal voltage)
Current consumption power contacts	typ. 50 mA + load
Current consumption K-bus	typ. 60 mA
Bit width in the process image	output: 2 x 16 bit data (2 x 8 bit control/status optional)
Configuration	no address or configuration setting
Weight	approx. 80 g
Operating/storage temperature	-25...+60 °C/-40...+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

Special terminals	
KL4012-0010	Siemens S5 format
KL4012-0011	altered range: 0...21.5 mA, maximum value corresponds to 21.5 mA instead of 20 mA
KL4012-0050	Siemens S7 format