Top view   Contact assembly

KL3228 | 8-channel input terminal PT1000, Ni1000 (RTD)

The KL3228 analog input terminal enables connection of eight resistance sensors. The Bus Terminal's circuitry can handle sensors using the 1-wire technique. Linearisation over the full temperature range is realised with the aid of a microprocessor. The temperature range can be selected freely. The Bus Terminal's standard settings are: resolution 0.1 °C within the temperature range of Ni1000 sensors. The error LEDs indicate sensor faults (e.g. a broken wire).

Technical data	KL3228	KS3228
Number of inputs	8
Power supply	via the K-bus
Technology	1-wire
Sensor types	PT1000, Ni1000
Connection method	1-wire
Measuring range	-50…+150 °C (PT sensors); -50…+150 °C (Ni sensors)
Conversion time	~ 1 s
Measuring current	~ 0.5 mA typ.
Resolution	0.1 °C per digit
Measuring error	~ ±1 °C, depending on wiring
Electrical isolation	500 V (K-bus/signal voltage)
Current consumption power contacts	–
Current consumpt. K-bus	typ. 85 mA
Bit width in the process image	input: 8 x 16 bit data (8 x 8 bit control/status optional)
Configuration	no address setting, configuration via Bus Coupler or controller
Special features	open-circuit recognition
Weight	approx. 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
Approvals	CE, UL, Ex