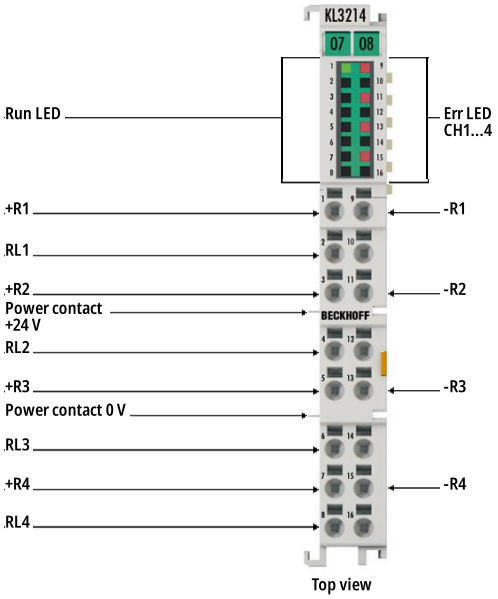
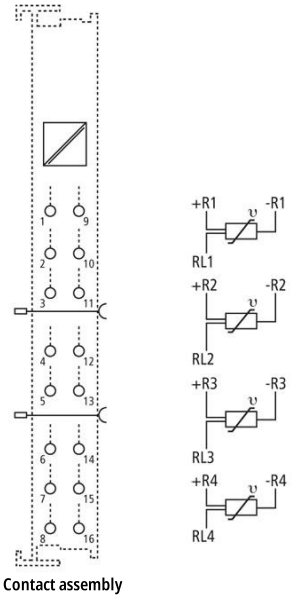
KL3214 | Bus Terminal, 4-channel analog input, temperature, RTD (Pt100), 16 bit, 3-wire connection



Top view



Contact assembly

Product status: Regular delivery

The KL3214 analog input terminal allows four resistance sensors to be connected directly. The Bus Terminal circuit can operate sensors using the 3-wire technique in a compact 12 mm housing. A microprocessor handles linearisation across the whole temperature range, which is freely selectable. The Bus Terminal's standard settings are: resolution 0.1 °C. Sensor malfunctions such as broken wires are indicated by error LEDs.

Product information

Technical Data

Technical data	KL3214
Number of inputs	4
Power supply	via the K-bus
Input filter limit frequency	typ. 1 kHz
Sensor types	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni1000, potentiometer: 10 Ω...1.2/4 kΩ, KTY sensors (types see documentation)
Connection method	3-wire
Measuring range	-200...+850 °C (Pt sensors); -60...+250 °C (Ni sensors)
Conversion time	approx. 170 ms default setting
Measuring current	< 0.5 mA (load-dependent)

Resolution	0.1 °C per digit
Measuring error	< ±0.5 °C for Pt sensors
Electrical isolation	500 V (K-bus/signal voltage)
Current consumption power contacts	–
Current consumption K-bus	typ. 120 mA
Special features	open-circuit recognition
Weight	approx. 60 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
Approvals/markings	CE, UL

Housing data	**HD housing**
Design form	HD (High Density) housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	–
Wiring	solid conductors (e): direct plug-in technique; fine-stranded conductors (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08…1.5 mm^2, st*: 0.25…1.5 mm^2, f*: 0.14…0.75 mm^2
Stripping length	8…9 mm

*s: solid wire; st: stranded wire; f: with ferrule