Analog Input   KL3054

Error LED1 ——→
Error LED3 ——→
←— Error LED2
←— Error LED4

+Input 1 ——→
←— +Input 2

Ground ——→
←— Ground

+Input 3 ——→
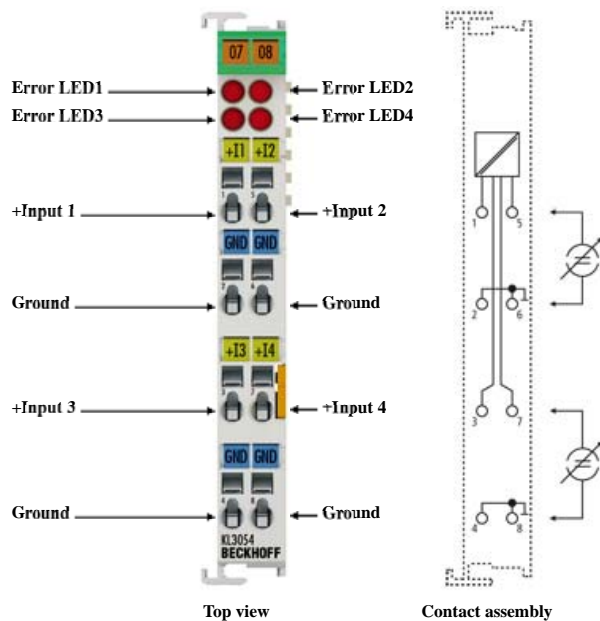←— +Input 4

Ground ——→
←— Ground

Top view   **Contact assembly**

KL3054 | 4-channel analog input terminal 4…20 mA

The job of the KL3054 analog input terminal is to transmit analog measurement signals with electrical isolation to the automation device. The input electronics is independent of the supply voltage of the power contacts. The ground connection is the reference potential for the inputs. The error LEDs indicate an overload condition and a broken wire. The KL3054 combines four channels in one housing.

Technical data	KL3054 | KS3054
Number of inputs	4
Signal current	4…20 mA
Technology	single-ended
Internal resistance	80 Ω + 0.7 V
Common-mode voltage U_{CM}	–
Resolution	12 bits
Conversion time	~ 4 ms
Measuring error	< ±0.3 % (relative to full scale value)
Surge voltage resistance	35 V max.
Electrical isolation	500 V (K-bus/signal voltage)
Current consumption power contacts	– (no power contacts)
Current consumpt. K-bus	typ. 75 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	for 2-wire sensors
Weight	approx. 70 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, GL

Special terminals	
KL3054-0050	Siemens S7 format