



KL3061 | 1-channel analog input terminal 0...10 V

The KL3061 analog input terminal handles signals in the range from 0 to 10 V. The voltage is digitised to a resolution of 12 bits and is transmitted, electrically isolated, to the higher-level automation device. The input channels of the Bus Terminal have a common ground potential, the reference ground. The KL3061 is characterised by its fine granularity and electrical isolation. The run LEDs give an indication of the data exchange with the Bus Coupler.

| Technical data | KL3061 KS3061 |
|------------------------------------|--|
| Number of inputs | 1 |
| Power supply | via the K-bus |
| Signal voltage | 0...10 V |
| Technology | single-ended |
| Internal resistance | > 200 k Ω typ. |
| Common-mode voltage U_{cm} | – |
| Conversion time | ~ 1 ms |
| Resolution | 12 bit |
| Measuring error | < ± 0.3 % (relative to full scale value) |
| Electrical isolation | 500 V (K-bus/signal voltage) |
| Current consumption power contacts | – (no power contacts) |
| Current consumption K-bus | typ. 60 mA |
| Bit width in the process image | input: 1 x 16 bit data (1 x 8 bit control/status optional) |
| Configuration | no address or configuration setting |
| 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 |
| Pluggable wiring | for all KSxxxx Bus Terminals |
| Approvals | CE, UL, Ex |