

KL3448 | Bus Terminal, 8-channel analog input, current, 0...20 mA, 12 bit, single-ended

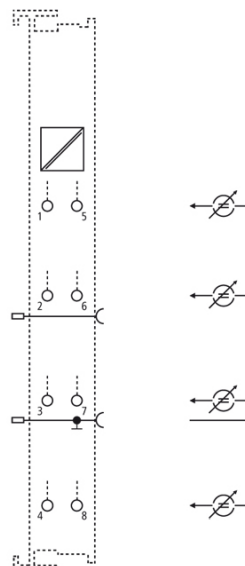
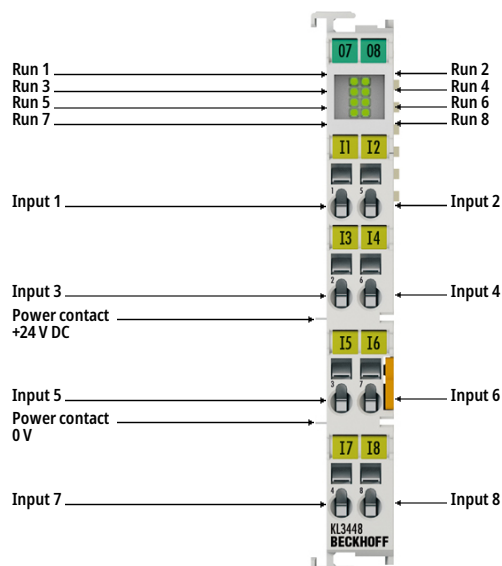


Image similar, may contain optional accessories

i **Product status:** regular delivery

The KL3448 analog input terminal processes signals in the range between 0 and 20 mA. The current is digitized to a resolution of 12 bits and is transmitted, in an electrically isolated form, to the higher-level automation device. The KL3448 combines eight channels in one housing and is particularly suitable for space-saving installation in control cabinets. The use of single conductor connection technology enables the connection of multi-channel sensor technology with minimum space requirements. The reference ground for all inputs is the 0 V power contact. The power contacts are connected through. Overload is detected. The terminal status is relayed to the controller via the K-bus. The LEDs indicate the data exchange with the Bus Coupler as well as overload or wire breakage.

Product information

Technical data

| Technical data | KL3448 |
|------------------------------|---------------|
| Number of inputs | 8 |
| Power supply | via the K-bus |
| Signal current | 0...20 mA |
| Technology | single-ended |
| Internal resistance | < 85 Ω |
| Common-mode voltage U_{CM} | – |

| | |
|------------------------------------|--|
| Conversion time | ~ 4 ms |
| Resolution | 12 bit |
| Measurement error/uncertainty | < ±0.3% (relative to full scale value) |
| Surge voltage resistance | 30 V DC |
| Electrical isolation | 500 V (K-bus/signal voltage) |
| Current consumption power contacts | – |
| Current consumption K-bus | typ. 105 mA |
| Bit width in the process image | input: 8 x 16 bit data (8 x 8 bit control/status optional) |
| Configuration | no address or configuration setting |
| Special features | high packing density |
| Weight | approx. 55 g |
| Operating temperature | -25...+60°C |
| Storage temperature | -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. rating/installation pos. | IP20/variable |
| Approvals/markings | CE, CCC, UL, ATEX, IECEx, DNV GL |
| Pluggable wiring | for all KSxxxx Bus Terminals |
| Ex marking | ATEX: II 3 G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc |

| Housing data | KL-12-8pin | KS-12-8pin |
|-----------------------------------|---|---|
| Design form | compact terminal housing with signal LEDs | terminal housing with pluggable wiring level |
| Material | polycarbonate | |
| 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 | labeling of the BZxxxx series | |
| Wiring | solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver | |
| Connection cross-section | s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ² | s*: 0.08...1.5 mm ² , st*: 0.08...1.5 mm ² , f*: 0.14...1.5 mm ² |
| Connection cross-section AWG | s*: AWG28...14, st*: AWG28...14, f*: AWG26...16 | s*: AWG28...16, st*: AWG28...16, f*: AWG26...16 |

| | | |
|-----------------------------|-------------------------|-----------|
| Stripping length | 8...9 mm | 9...10 mm |
| Current load power contacts | I _{max} : 10 A | |
| Dimensions (W x H x D) | 12 mm x 100 mm x 68 mm | |

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

Ordering information

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|----------------------|--|
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| KS3448 | Bus Terminal, 8-channel analog input, current, 0...20 mA, 12 bit, single-ended, pluggable wiring |