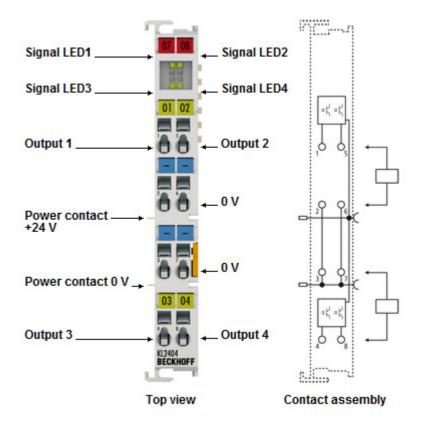
-60°C

25°C



KL2404, KL2424 | 4-channel digital output terminals 24 V DC

The KL2404 and KL2424 digital output terminals connect the binary 24 V control signals electrically isolated with the actuators. The Bus Terminals contain four channels that indicate their signal state by means of LEDs. The variants KL2404 and KL2424 have different maximum output currents. The 4-channel Bus Terminals enable the direct connection of four 2-wire sensors. Four ground connection points are provided.

| Technical data | KL2404 / KS2404 | KL2424 / KS2424 | |
|------------------------------------|--|-----------------------------|--|
| Connection technology | 2-wire | | |
| Number of outputs | 4 | | |
| Rated voltage | 24 VDC (-15% / +20%) | | |
| Load type | ohmic, inductive, lamp load | | |
| Output current max. (per channel) | 0.5 A (short-circuit proof) | 2.0 A (short-circuit proof) | |
| Short circuit current | < 2 A | < 70 A | |
| Breaking energy | < 150 mJ/channel | < 1.7 J/channel | |
| Reverse voltage protection | yes | | |
| Electrical isolation | 500 V (K-Bus/field potential) | | |
| Current consumption K-bus | typ. 9 mA | | |
| Current consumption power contacts | typ. 30 mA + load | | |
| Bit width in process image | 4 output bits | | |
| Configuration | no address-or configuration settings required | | |
| Dimensions (W x H x D) | 15mm x 100mm x 70mm (connected width: 12mm) | | |
| Weight | approx. 70 g | | |
| Permissible ambient temperature | -25°C +60°C in operation | | |
| range | $0^\circ\!\mathrm{C}$ +55 $^\circ\!\mathrm{C}$ (according to cULus for Canada and USA) | | |
| | 0 °C +55 °C (according to ATEX, see special conditions) | | |
| | -40 °C +85 °C during storage | | |
| Relative humidity | 95%, no condensation | | |

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| Technical data | KL2404 / KS2404 | KL2424 / KS2424 | | |
|------------------------------|------------------------------|--|--|--|
| Vibration / shock resistance | conforms to EN 60068-2-6 | conforms to EN 60068-2-6 / EN 60068-2-27 | | |
| EMC resistance/emission | conforms to EN 61000-6-2 | conforms to EN 61000-6-2 / EN 61000-6-4 | | |
| Installation position | variable | variable | | |
| Protection class | IP20 | IP20 | | |
| Approvals | CE,c ULus, ATEX | cULus | | |
| Pluggable wiring | at all KSxxxx series termina | at all KSxxxx series terminals | | |

ATEX - Special conditions

| | Observe the special conditions for the intended use of Beckhoff fieldbus components in potentially explosive areas (directive 94/9/EU)! |
|--------|--|
| ARNING | • The certified components are to be installed in a suitable housing that guarantees a protection class of at least IP54 in accordance with EN 60529! The environmental conditions during use are thereby to be taken into account! |
| | If the temperatures during rated operation are higher than 70 °C at the feed-in points of cables, lines or pipes, or higher than 80 °C at the wire branching points, then cables must be selected whose temperature data correspond to the actual measured temperature values! |
| | • Observe the permissible ambient temperature range of 0 - 55 ℃ for the use of Beckhoff fieldbus components in potentially explosive areas! |
| | • Measures must be taken to protect against the rated operating voltage being exceeded by more than 40% due to short-term interference voltages! |
| | • The individual terminals may only be unplugged or removed from the Bus Terminal system if the supply voltage has been switched off or if a non-explosive atmosphere is ensured! |
| | • The connections of the certified components may only be connected or disconnected if the supply voltage has been switched off or if a non-explosive atmosphere is ensured! |
| | • The fuses of the KL92xx power feed terminals may only be exchanged if the supply voltage has been switched off or if a non-explosive atmosphere is ensured! |
| | Address selectors and ID switches may only be adjusted if the supply voltage has been switched off or if a non-explosive atmosphere is ensured! |

| i | Operation of the Bus Terminal System in potentially explosive areas (ATEX)! |
|------|---|
| | Pay also attention to the continuative documentation |
| Note | Notes about operation of the Bus Terminal System in potentially explosive areas (ATEX) |
| | that is available in the <u>download area</u> of the Beckhoff homepage <u>http://www.beckhoff.com</u> ! |