


**Power supply unit terminal for the K-Bus**


The KL9400/KS9400 power supply unit terminal is used to refresh the K-bus. Data is exchanged between the Bus Coupler and Bus Terminal over the K-Bus. Each Bus Terminal draws a certain amount of current from the K-Bus (see Current Consumption from the K-bus in the technical data). This current is fed into the K-Bus by the relevant Bus Coupler’s power supply unit. The standard couplers (BKxx00, BCxx00) makes 1.75 A available to the K-Bus, while the Economy Coupler (BKxx10) and the Low Cost Coupler (LCxx00) provide 0.5 A. In configurations with a large number of Bus Terminals it is possible to use the KL9400/KS9400 in order to supply an extra 2 A to the K-Bus.

Technical Data	KL9400, KS9400
Input voltage	24 V <sub>DC</sub>
Output voltage (K-Bus)	5 V <sub>DC</sub>
Output current (K-Bus)	max. 2 A
Power contact voltage	24 V <sub>DC</sub>
Power contact current load	max. 10 A
Configuration	no address setting or configuration needed
Bits width in process image	0
Electrical isolation	500 V (K-Bus / field voltage)
Weight	app. 65 g
Dimensions (w x h d)	15 mm x 100 mm x 70 mm (width aligned: 12 mm)
Mounting	on 35 mm mounting rail conforms to EN 50022
Installation position	variable
Pluggable wiring	for all KSxxxx Bus Terminals
Permissible ambient temperature	-25°C ... +60°C (extended temperature range)
	0°C ... +55°C (according to cULus for Canada and USA)
	0°C ... +55°C (according to ATEX, see special conditions)
	-40°C ... +70°C (on storage)
Permissible relative humidity	5% ... 95%, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6 / EN 60068-2-27, EN 60068-2-29
EMC resistance burst/ESD	conforms to EN 61000-6-2 / EN 61000-6-4

<b>Technical Data</b>	<b>KL9400, KS9400</b>
Protection class	IP20
Approval	CE, cULus, ATEX, GL

**ATEX - Special conditions**

 <b>WARNING</b>	<p><b>Observe the special conditions for the intended use of Beckhoff fieldbus components in potentially explosive areas (directive 94/9/EU)!</b></p> <ul style="list-style-type: none"> <li>• 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!</li> <li>• 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!</li> <li>• Observe the permissible ambient temperature range of 0 - 55°C for the use of Beckhoff fieldbus components in potentially explosive areas!</li> <li>• Measures must be taken to protect against the rated operating voltage being exceeded by more than 40% due to short-term interference voltages!</li> <li>• 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!</li> <li>• 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!</li> <li>• 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!</li> <li>• 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!</li> </ul>
---	---

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