



### K-Bus end terminal

The KL9010 K-Bus end terminal is necessary for data exchange between the Bus Coupler and the Bus Terminals. Each Bus Terminal block has to be terminated at the right hand end with a K-Bus end terminal. The K-Bus end terminal KL9010 does not have any other function or connection facility.

Technical Data	KL9010
Current consumption from the K-Bus	-
Electrical isolation	500 V (K-Bus/signal voltage)
Bit width in the process image	-
Configuration	no address or configuration settings
Weight	ca. 50 g
Permissible ambient temperature range	-25 °C ... +60 °C in operation 0 °C ... +55 °C (according to cULus for Canada and USA) 0 °C ... +55 °C (according to ATEX, see special conditions) -40 °C ... +85 °C (during storage)
Permissible relative humidity	5% ... 95%, no condensation
EMC resistance burst / ESD	conforms to EN 61000-6-2 / EN 61000-6-4
Vibration / shock resistance	conforms to EN 60068-2-6 / EN 60068-2-2
Protection class	IP20
Installation pos.	Variable
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>
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 <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</p> <p><i>Notes about operation of the Bus Terminal System in potentially explosive areas (ATEX)</i></p> <p>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>
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