



**Four-channel, digital output terminal, 24 V<sub>DC</sub>**

The KL2114 and KL2134 digital output terminals connect the binary control signals from the automation unit on to the actuators at the process level with electrical isolation. The load current output of the KL2114 version is protected against overload and short circuit. The KL2134 is protected against reverse polarity connection. The Bus Terminals contain four channels that indicate their signal state by means of light emitting diodes.

Technical data	KL2114 / KS2114	KL2134 / KS2134
Connection technology	2-/3-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) per channel	
Breaking energy	< 150 mJ/channel	
Reverse voltage protection	no	yes
Electrical isolation	500 V (K-Bus/field potential)	
Current consumption from K-bus	typ. 9 mA	
Current consumption from the load voltage	typ. 30 mA	
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 range	-0 °C... +55 °C in operation	-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)
	-25 °C... +85 °C during storage	-40 °C... +85 °C during storage
Relative humidity	5% ... 95%, no condensation	
Vibration / shock resistance	conforms to EN 60068-2-6 / EN 60068-2-27	
EMC resistance/emission	conforms to EN 61000-6-2 / EN 61000-6-4	

Technical data	KL2114 / KS2114	KL2134 / KS2134
Installation position	variable	
Protection class	IP20	
Approvals	CE, cULus, ATEX	CE, cULus, ATEX, GL
Pluggable wiring	at all KSxxxx series terminals	

**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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