



## KL5121 | Incremental encoder interface with programmable outputs

The KL5121 Bus Terminal can be used to implement a linear path control. The terminal reads an incremental signal, which can be supplied by an incremental encoder or a pulse generator, and switches the outputs when the counter reaches a previously defined state. The counter states can be transmitted to the terminal by the higher-level automation device in the form of a table. The position is acquired with the aid of the latch input, which is activated/deactivated by the gate input. Up to four 24 V outputs can be switched. The LEDs indicate the states of the signals at the various inputs and outputs.

Technical data	KL5121   KS5121
Technology	incremental encoder interface with programmable outputs
Number of channels	1 incremental encoder + 4 outputs
Encoder connection	A, B, latch, gate
Encoder operating voltage	24 V DC
Counter	16 bit, binary
Limit frequency	1 million increments/s (with 4-fold evaluation)
Output voltage	24 V
Output current	0.5 A
Switching times	< 100 $\mu$ s
Power supply	24 V DC (-15 %/+20 %)
Supply voltage	24 V DC (-15 %/+20 %)
Current consumption power contacts	typ. 30 mA + load
Current consumption K-bus	typ. 30 mA
Bit width in the process image	input/output: 2 x 16 bit data, 2 x 8 bit control/status
Special features	electronic camshaft controller
Weight	approx. 60 g
Operating/storage temperature	0...+55 °C/-25...+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. class/installation pos.	IP 20/variable
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals	CE, UL, Ex