



KL5001 | SSI encoder interface

The KL5001 SSI interface terminal enables the direct connection of an SSI encoder that is powered via the SSI interface. The interface circuit generates a pulse for reading the encoder and makes the incoming data stream available to the controller as a data word in the process image. Various operating modes, transmission frequencies and bit widths can be permanently stored in a control register. A screen can be connected via the KL9195 shield terminal.

Technical data	KL5001 KS5001
Technology	SSI encoder interface
Number of channels	1 encoder interface
Encoder connection	binary input: D+, D-, binary output: Cl+, Cl-
Power supply	24 V DC via power contacts
Current consumption	typ. 20 mA without encoder
Current consumption power contacts	typ. 20 mA + load
Encoder supply	24 V DC via power contacts
Data transfer rates	variable up to 1 MHz, 250 kHz default
Serial input	24 bit width (variable)
Data direction	read
Signal output	difference signal (RS422)
Signal input	difference signal (RS422)
Electrical isolation	500 V (K-bus/field potential)
Current consumption K-bus	typ. 25 mA
Bit width in the process image	input: 1 x 32 bit data (1 x 8 bit control/status optional)
Weight	approx. 60 g
Operating/storage temperature	-25...+60 °C/-40...+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