



KL5051 | Bidirectional SSI encoder interface

The KL5051 bidirectional SSI interface terminal enables the connection of digital servo drives. The encoder is powered via the SSI interface, which consists of two logic channels. The first channel is used for the positioning of the drive, while the second channel is used to set releases, to transmit parameter data and to read status information and parameter values. The 5 V DC supply voltage can be generated with the KL9505 power supply terminal and fed into the power contacts.

Technical data	KL5051 KS5051
Technology	SSI encoder interface
Number of channels	1 encoder interface
Encoder connection	binary input: D+, D-, binary output: Cl+, Cl-
Power supply	5 V DC via power contacts (KL9505)
Current consumption	typ. 85 mA without encoder
Current consumption power contacts	n. a.
Encoder supply	5 V DC
Data transfer rates	1 MHz
Serial input	24 bit width (variable)
Data direction	bidirectional
Signal output	difference signal (RS422)
Signal input	difference signal (RS422)
Electrical isolation	500 V (K-bus/field potential)
Current consumption K-bus	typ. 75 mA
Bit width in the process image	input/output: 2 x 16 bit data, 2 x 8 bit control/status
Special features	bidirectional
Weight	approx. 80 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



Product announcement

KL5051: available
KS5051: estimated market release on request