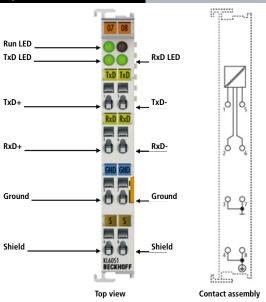
Special functions KL6051



KL6051 | Data exchange terminal with serial interface

The KL6051 serial interface terminal makes it possible to exchange data between different fieldbus systems. Full duplex data exchange is possible, independently of the higher-level fieldbus. Under the terminal's default setting, 32 inputs and 32 outputs are transferred between the fieldbus systems. The time to exchange the data is about 5 ms for 32 bits of I/O. The exchange of data with the Bus Coupler is indicated by the run LED. The TxD and RxD LEDs indicate the state of the signal transmission.

25 g

Technical data	KL6051 KS6051
Technology	2 x RS422
Data transfer channels	TxD and RxD, full duplex
Data transfer rates	62,500 baud, 32 bit bidirectional data exchange between two KL6051
Bit transfer	via 2 pairs of twisted wires with differential signals
Line impedance	120 Ω
Cable length	approx. 1,000 m twisted pair
Power supply	via the K-bus
Current consumpt. K-bus	typ. 65 mA
Current consumption power contacts	- (no power contacts)
Electrical isolation	500 V (K-bus/signal voltage)
Data buffer	32 bit bidirectional
Bit width in the process image	input/output: 4 x 8 bit user data, 1 x 8 bit control/status (up to 5 x 8 bit user data are possible)
Configuration	no address or configuration setting
Special features	automatic data exchange
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