



## KL6001, KL6031 | Serial interface RS232

The KL6001 and KL6031 serial interfaces allow devices with an RS232 interface to be connected. The interface operates in conformity with the CCITT V.28/DIN 66 259-1 standards. The device connected to the terminal communicates with the automation device via the Bus Coupler. The active communication channel operates independently of the higher-level bus system in full duplex mode at up to 19,200 baud (KL6001) or 115.2 kbaud (KL6031). The RS232 interface guarantees high immunity to interference through electrically isolated signals.

Technical data	KL6001   KS6001	KL6031   KS6031
Data transfer channels	2 (1/1), TxD and RxD, full duplex	
Data transfer rates	9,600 baud, 8 data bits, no parity and one stop bit are preset (max. 19,200 baud)	9,600 baud, 8 data bits, no parity and one stop bit are preset (max. 115,200 baud)
Bit distortion	< 3 %	
Cable length	max. 15 m	
"0" signal voltage	-18...-3 V	
"1" signal voltage	3...18 V	
Power supply	via the K-bus	
Current consumption K-bus	55 mA	
Electrical isolation	500 V <sub>rms</sub> (K-bus/signal voltage)	
Data buffer	128 bytes receive buffer, 16 bytes transmit buffer	1024 bytes receive buffer, 128 bytes transmit buffer
Bit width in the process image	input/output: 3 x 8 bit user data, 1 x 8 bit control/status (up to 5 x 8 bit user data are possible)	input/output: 22 x 8 bit user data, 2 x 8 bit control/status (up to 22 byte user data are possible)
Configuration	no address setting, configuration via Bus Coupler or controller	
Weight	approx. 80 g	
Protect. class/installation pos.	IP 20/variable	
Pluggable wiring	for all KSxxxx Bus Terminals	
Further information	www.beckhoff.com/KL6001	

Special terminals	
KL6001-0020	standard format 5 bytes of user data

Accessories		
TwinCAT PLC Serial Communication	IEC 61131-3 software library for TwinCAT PLC for communication via serial Bus Terminals or PC COM ports	1170
TwinCAT PLC Serial Communication 3964R/RK512	licence for using the IEC 61131-3 software library for TwinCAT PLC for communication via serial Bus Terminals or the PC COM ports using the protocol 3964R/RK512	1170
TwinCAT PLC Modbus RTU	IEC 61131-3 software library for TwinCAT PLC with Modbus RTU function blocks for serial communication with Modbus devices	1171