



KL6011 | Serial interface TTY, 20 mA current loop

The KL6011 serial interface allows devices with a 20 mA current interface to be connected. The interface operates passively. The device connected to the KL6011 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. The current interface (TTY) guarantees high immunity to interference through electrically isolated signals with injected current.

Technical data	KL6011 KS6011
Technology	TTY
Data transfer channels	2 (1/1), TxD and RxD, full duplex
Data transfer rates	1,200...19,200 baud; default: 9,600 baud, 8 data bits, no parity and one stop bit
Bit transfer	2 x 20 mA
Load	< 500 Ω
Line impedance	–
Cable length	max. 1,000 m twisted pair
Power supply	via the K-bus
Current consumpt. K-bus	typ. 55 mA
Current consumption power contacts	– (no power contacts)
Electrical isolation	500 V (K-bus/signal voltage)
Data buffer	128 bytes receive buffer, 16 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)
Configuration	no address setting, configuration via Bus Coupler or controller
Special features	2 x 20 mA bit transfer
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

Special terminals	
KL6011-0020	standard format 5 bytes of user data