



## KL6041 | Serial interface RS422/RS485

The KL6041 serial interface allows devices with an RS422 or RS485 interface to be connected. 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 or half duplex mode at up to 115.2 kbaud. The transmission of differential signals conforms to RS422 and guarantees high immunity to interference through electrically isolated signals.

Technical data	KL6041   KS6041
Technology	RS422/RS485
Data transfer channels	TxD and RxD, full/half duplex
Data transfer rates	4800...115,200 baud; default: 9600 baud, 8 data bits, no parity and one stop bit
Bit transfer	with differential signal
Line impedance	120 Ω
Cable length	approx. 1000 m twisted pair
Power supply	via the K-bus
Current consumption K-bus	typ. 65 mA
Current consumption power contacts	– (no power contacts)
Electrical isolation	500 V (K-bus/signal voltage)
Data buffer	1024 bytes receive buffer, 128 bytes transmit buffer
Bit width in the process image	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
Special features	high interference immunity, electrically isolated signals
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, GL

Accessories	
<b>TS6340</b>	IEC 61131-3 software library for TwinCAT PLC for communication via serial devices
<b>TS6341</b>	license for using the software library for communication via serial Bus Terminals or PC COM ports using the protocol 3964R/RK512
<b>TS6255</b>	IEC 61131-3 software library for TwinCAT PLC with Modbus RTU function blocks for serial communication with Modbus devices

System	
<b>RS485</b>	For further RS485 products please see the <a href="#">system overview</a> .

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