



KL6811 | DALI/DSI master and power supply terminal

The KL6811 enables the connection of up to 64 DALI slaves. The KS2000 software enables simple configuration via a PC that is directly coupled with the Bus Coupler via an RS232 interface or via the fieldbus. The integrated power supply unit generates an electrically isolated 24 V DC output voltage. No further components are required for the operation of the DALI slaves. The KL6811 operates fieldbus-independent.

Technical data	KL6811 KS6811
Technology	DALI/DSI
Number of channels	1
Slaves/groups	max. 64/max. 16
Data transfer channels	1
Data transfer standard	DALI
Data transfer rates	1,200 baud
Current consumpt. K-bus	typ. 55 mA
Current consumption power contacts	typ. 30 mA + load
Short-circuit-proof	yes, automatic restart
Electrical isolation	500 V (K-bus/DALI-bus)
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	via the Bus Coupler or the controller
Nominal voltage	24 V DC (-15 %/+20 %)
Input voltage	24 V DC (-15 %/+20 %)
Insulation voltage	DALI-bus/K-bus: 1,500 V AC _{rms} , constant load; DALI-bus/power contacts: 1,500 V AC _{rms} , constant load; K-bus/power contacts: 500 V AC _{rms} , constant load
DALI/DSI	standards-compliant, open circuit voltage 11.5...15 V DC
DALI power supply	max. 130 mA
Surge voltage resistance	constant load 275 V AC _{rms}
Special features	connection of up to 64 DALI slaves; TwinCAT library: TwinCAT PLC DALI
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

Accessories

TwinCAT PLC DALI

The library is installed free of charge together with TwinCAT from V2.11 Build 2229 (R3 and x64 engineering).

System

subsystem

For further subsystem products please see the [system overview](#).