



KL2552 | 2-channel DC motor output stage 50 V DC, 5 A

The KL2552 Bus Terminal enables direct operation of two DC motors. It is galvanically isolated from the K-bus. The speed is specified by the automation device via a 16 bit value. Connection of an incremental encoder enables a simple servo axis to be realised. Typical motor parameters can be set in order to avoid critical conditions of the DC motor. The load can be protected by limiting the maximum values for speed, torque and acceleration. The output stage is protected against overload and short-circuit. The Bus Terminal contains two channels that indicate their signal state by means of light emitting diodes. The LEDs enable quick local diagnosis.

Technical data	KL2552 KS2552
Connection technology	direct motor connection
Number of outputs	2 DC motors, encoder input
Rated load voltage	8...50 V DC
Load type	DC brush motors, inductive
Max. output current	2 x 5 A (short-circuit-proof, thermal overload-proof for both channels together)
PWM clock frequency	30 kHz with 180° phase shift each
Duty factor	0...100 % (voltage-controlled)
Resolution	max. 10 bits current, 16 bits speed
Reverse voltage protection	–
Electrical isolation	500 V (K-bus/field potential)
Current consumption power contacts	typ. 50 mA
Current consumpt. K-bus	typ. 100 mA
Encoder signal	5...24 V DC, 5 mA, single-ended
Pulse frequency	max. 400,000 increments/s (with 4-fold evaluation)
Bit width in the process image	48 inputs/outputs: 2 x 16 bit data, 2 x 8 bit control/status
Configuration	adaptation and optimisation of the respective motor via the controller and registers or KS2000 configuration software
Weight	approx. 100 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/see documentation
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals	CE

Related products	
KL2532	2-channel DC motor output stage 24 V DC, 1 A, Bus Terminal, IP 20
EL7332	2-channel DC motor output stage 24 V DC, 1 A, EtherCAT Terminal IP 20
EL7342	2-channel DC motor output stage 50 V DC, 3.5 A, EtherCAT Terminal, IP 20
EP7342	2-channel DC motor output stage 50 V DC, 3.5 A, EtherCAT Box, IP 67