



## KL2502 | 2-channel pulse width output terminal 24 V DC

The KL2502 output terminal modulates the pulse width of a binary signal, and outputs it electrically isolated from the K-bus. The mark/space ratio is prescribed by a 16 bit value from the automation unit. 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 are driven in time with the outputs and show the mark/space ratio by their brightness.

Technical data	KL2502   KS2502
Number of outputs	2
Rated load voltage	24 V DC (-15 %/+20 %)
Load type	ohmic
Max. output current	0.1 A (1 A driver component) per channel
PWM clock frequency	1...20 kHz, 250 Hz default
Duty factor	0...100 % (T <sub>ON</sub> > 750 ns, T <sub>OFF</sub> > 500 ns)
Resolution	max. 10 bit
Electrical isolation	500 V (K-bus/field potential)
Current consumption power contacts	typ. 10 mA + load
Current consumption K-bus	typ. 18 mA
Bit width in the process image	48 inputs/outputs: 2 x 16 bit data, 2 x 8 bit control/status
Configuration	no address setting, configuration via Bus Coupler or controller
Weight	approx. 50 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, IECEx

Special terminals	
KL2502-3020	5 V output, 30 kHz limit frequency