

KL2535 | Bus Terminal, 2-channel PWM output, 24 V DC, 1 A, current-controlled

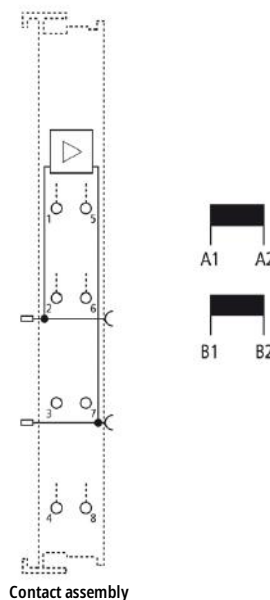
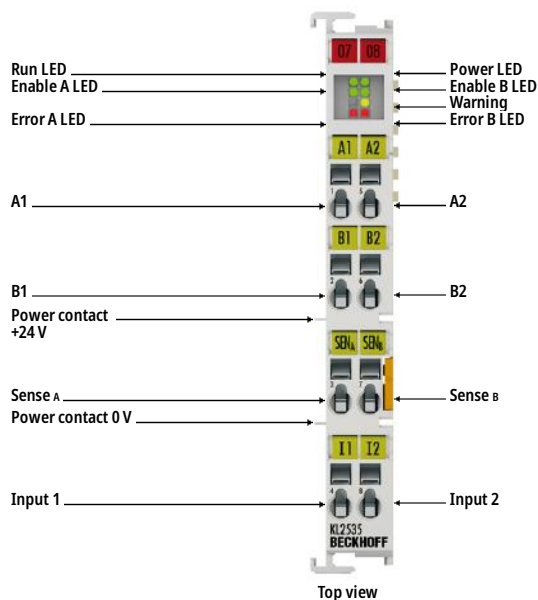
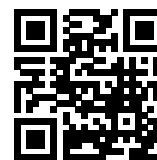


Image similar, may contain optional accessories

i **Product status:** regular delivery

The KL2535 output terminal controls an output current via pulse width control of the supply voltage. It is galvanically isolated from the K-bus. The current value (0 to ± 1 A) is specified by the automation device via a 16 bit value. 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 simplify local diagnosis by displaying typical load and wiring faults.

Product information

Technical data

Technical data	KL2535
Number of outputs	2
Nominal voltage	24 V DC (-15%/+20%)
Load type	inductive > 1 mH, valves, coils
Max. output current	2 x ± 1 A (short-circuit proof, thermal-overload proof for both channels together)
PWM clock frequency	36 kHz
Duty factor	0...100% (current-controlled)
Resolution	max. 12 bit
Electrical isolation	500 V (K-bus/field potential)

Current consumption power contacts	load only
Current consumption K-bus	typ. 60 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. 55 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. rating/installation pos.	IP20/see documentation
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals/markings	CE

Housing data	KL-12-8pin	KS-12-8pin
Design form	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock	
Side by side mounting by means of	double slot and key connection	
Marking	labeling of the BZxxx series	
Wiring	solid conductor (s), flexible conductor (st) and ferrule (f): spring actuation by screwdriver	
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²	s*: 0.08...1.5 mm ² , st*: 0.08...1.5 mm ² , f*: 0.14...1.5 mm ²
Connection cross-section AWG	s*: AWG28...14, st*: AWG28...14, f*: AWG26...16	s*: AWG28...16, st*: AWG28...16, f*: AWG26...16
Stripping length	8...9 mm	9...10 mm
Current load power contacts	I _{max} : 10 A	

*s: solid wire; st: stranded wire; f: with ferrule

Ordering information

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KL2535	Bus Terminal, 2-channel PWM output, 24 V DC, 1 A, current-controlled
KS2535	Bus Terminal, 2-channel PWM output, 24 V DC, 1 A, current-controlled, pluggable wiring