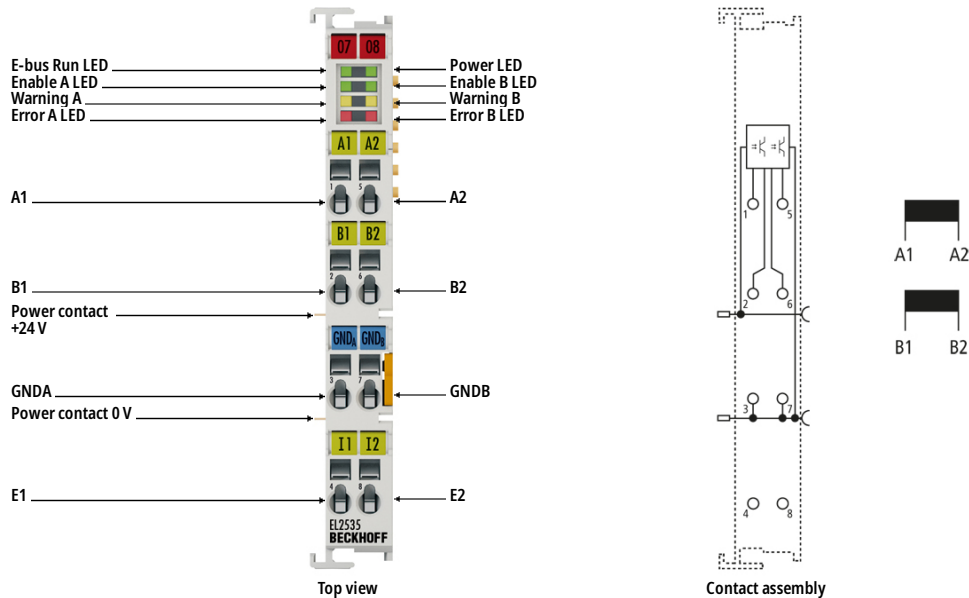
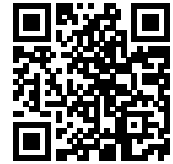


EL2535-0050 | EtherCAT Terminal, 2-channel PWM output, 24 V DC, 50 mA, current-controlled



i Product status: Regular delivery

The EL2535-xxx output terminals control the output current through pulse width control of the supply voltage. They are electrically isolated from the E-bus. The current values (0 to maximum output current) are specified by the automation device through a 16-bit value. The output stages are protected against overload and short circuit. Each EtherCAT Terminal contains two channels whose signal state is indicated by LEDs. The light emitting diodes simplify local diagnosis by displaying typical load and wiring faults.

Special features:

- 2 PWM outputs with push-pull output stage
- Suitable for inductive loads > 1 mH
- ± 50 mA max. output current per channel at 24 V DC rated voltage

Product information

Technical Data

Technical data	EL2535-0050
Connection technology	PWM output, push-pull outputs
Number of outputs	2
Nominal voltage	24 V DC (-15 %/+20 %)
Load type	inductive > 1 mH

Distributed clocks	–
Max. output current	±50 mA
Short-circuit current	< 500 mA typ.
PWM clock frequency	30 kHz default
Duty factor	0...100 % (current-controlled)
Resolution	10 bit
Reverse voltage protection	yes
Current consumption E-bus	typ. 110 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 30 mA + load
Bit width in the process image	48 inputs/outputs: 2 x 16 bit data, 2 x 8 bit control/status
Special features	2 digital 24 V inputs
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. rating/installation pos.	IP20/see documentation
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, UL, ATEX
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-12-8pin	ES-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 (e), flexible conductor (f) and ferrule (a): 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*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16	s*: AWG 28...16, st*: AWG 28...16, f*: AWG 26...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