



EL2535 | 2-channel pulse width current terminals 24 V DC

The EL2535, EL2535-0050 and EL2535-0002 output terminals control the output current via pulse width control of the supply voltage. They are galvanically isolated from the E-bus. The current value 0 up to maximum output current (± 1 A, ± 50 mA, ± 2 A) is specified by the automation device via a 16 bit value. The output stages are protected against overload and short-circuit. The EtherCAT Terminals have two channels that indicate their signal state via light emitting diodes. The LEDs simplify local diagnosis by displaying typical load and wiring faults.

Technical data	EL2535 ES2535	EL2535-0002	EL2535-0050
Connection technology	PWM output, push-pull outputs		
Number of outputs	2		
Nominal voltage	24 V DC (-15 %/+20 %)		
Rated load voltage	24 V DC (-15 %/+20 %)		
Load type	inductive > 1 mH		
Distributed clocks	–		
Max. output current	± 1 A per channel	± 2 A	± 50 mA
Short circuit current	typ. < 2 A	< 4 A typ.	< 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. class/installation pos.	IP 20/see documentation		
Pluggable wiring	for all ESxxxx terminals		
Approvals	CE	CE, Ex, IECEx	CE, Ex