



## EL2502 | 2-channel pulse width output terminal 24 V DC

The EL2502 output terminal modulates the pulse width of a binary signal and outputs it electrically isolated from the E-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 EtherCAT Terminal has two channels that indicate their signal state via LEDs. The LEDs are driven in time with the outputs, and show the mark/space ratio by their brightness.

Technical data	EL2502   ES2502
Connection technology	PWM output, push-pull outputs
Number of outputs	2
Rated load voltage	24 V DC (-15 %/+20 %)
Load type	ohmic, inductive, lamp load
Distributed clocks	–
Max. output current	0.5 A (short-circuit-proof) per channel
Short circuit current	typ. < 1.5 A
PWM clock frequency	20 Hz...20 kHz, 250 Hz default
Base frequency	1 Hz...125 kHz, 250 Hz default
Duty factor	0...100 % (T <sub>ON</sub> > 750 ns, T <sub>OFF</sub> > 500 ns)
Resolution	9...15 bit
Reverse voltage protection	yes
Current consumption E-bus	typ. 150 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 30 mA + load
Bit width in the process image	2 x 16 bit PWM output
Configuration	via TwinCAT System Manager
Special features	separate frequency can be set for each channel
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 ESxxxx terminals
Approvals	CE, UL, Ex