

## EL2262 | 2-channel digital output terminal with oversampling

The EL2262 digital output terminal connects the binary control output signals at the process level with electrical isolation. The outputs are controlled with an adjustable, integer multiple (oversampling factor: n) of the bus cycle time (n microcycles per bus cycle). For each micro-cycle, the EtherCAT Terminal receives a process data block that is output consecutively. The time base of the terminal can be synchronised precisely with other EtherCAT devices via distributed clocks. This enables an output pattern with a significantly higher pulse sequence than the bus cycle time, exactly synchronised with the system time base. This procedure enables the temporal resolution of the digital output signals to be increased to n times the bus cycle time. The maximum output rate is 1 Msample/s.

Technical data	EL2262   ES2262			
Connection technology	4-wire			
Number of outputs	2			
Rated load voltage	24 V DC (-15 %/+20 %)			
Load type	ohmic, inductive, lamp load			
Oversampling factor	n = integer multiple of the cycle time, 11,000			
Distributed clocks	yes			
Distributed clock precision	<<1 μs			
Max. output current	0.5 A (short-circuit-proof in push operation) per channel			
Short circuit current	typ. < 1.5 A			
Reverse voltage protection	yes			
Current limitation	typ. 4 A/150 μs			
Breaking energy	< 150 mJ/channel			
Switching times	typ. Ton: < 1 μs, typ. Toff: < 1 μs			
Output stage	push-pull			
Output rate	max. 1 Msample/s, min. cycle 1 μs			
Current consumption E-bus	typ. 70 mA			
Electrical isolation	500 V (E-bus/field potential)			
Current consumption power contacts	typ. 35 mA + load			
Bit width in the process image	n x 2 outputs + 32 bit CycleCounter + 32 bit StartTimeNextOutput			
Configuration	via TwinCAT System Manager			
Special features	up to 1,000 x oversampling, max. 1 Msample/s, min. output cycle 1 μs			
Weight	approx. 60 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			

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