



EL4012 | 2-channel analog output terminal 0...20 mA, 12 bit

The EL4012 analog output terminal generates analog output signals in the range between 0 and 20 mA. The power is supplied to the process level with a resolution of 12 bits and is electrically isolated. Ground potential for the output channels of an EtherCAT Terminal is common with the 0 V DC supply. The output stages are powered by the 24 V supply. The EL4012 combines two channels in one housing. The EtherCAT Terminal indicates its signal state by means of light emitting diodes.

Technical data	EL4012 ES4012
Connection technology	3-wire, single-ended
Number of outputs	2
Power supply	24 V DC via power contacts
Signal current	0...20 mA
Distributed clocks	yes
Distributed clock precision	<< 1 μ s
Load	< 500 Ω (short-circuit-proof)
Output error	< 0.1 % (relative to end value)
Resolution	12 bit
Electrical isolation	500 V (E-bus/signal voltage)
Conversion time	~ 150 μ s
Current consumption power contacts	typ. 25 mA
Current consumption E-bus	typ. 140 mA
Bit width in the process image	2 x 16 bit AO output
Special features	Optional watchdog: user-specific output value with ramp; user synchronisation can be activated.
Weight	approx. 60 g
Operating/storage temperature	-25...+60 °C/-40...+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