Run LED 1 — Run LED 2
Run LED 3 — Run LED 4
Output 1 — Output 2
0 V — 0 V
Power contact +24 V
Output 3 — Output 4
Power contact 0 V
0 V — 0 V

Top view | Contact assembly

EL4024 | 4-channel analog output terminal 4…20 mA, 12 bit

The EL4024 analog output terminal generates signals in the range between 4 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 the EtherCAT Terminal is common with the 24 V DC supply. The output stages are powered by the 24 V supply. The EL4024 has four channels. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL4024	ES4024
Connection technology	2-wire, single-ended
Number of outputs	4
Power supply	24 V DC via power contacts
Signal current	4…20 mA
Distributed clocks	yes
Distributed clock precision	<< 1 µs
Load	< 350 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	~ 250 µs
Current consumption power contacts	typ. 25 mA
Current consumption E-bus	typ. 140 mA
Bit width in the process image	4 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/markings	CE, UL, ATEX
Ex-Marking	II 3 G Ex nA IIC T4 Gc