



## EL4011 | 1-channel analog output terminal 0...20 mA, 12 bit

The EL4011 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 EL4011 is the single-channel variant. The EtherCAT Terminal indicates its signal state by means of light emitting diodes.

| Technical data                     | EL4011   ES4011   |
|------------------------------------|---|
| Connection technology              | 3-wire, single-ended  |
| Number of outputs                  | 1   |
| Power supply                       | 24 V DC via power contacts  |
| Signal current                     | 0...20 mA   |
| Distributed clocks                 | yes   |
| Distributed clock precision        | << 1 μs   |
| 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                    | ~ 100 μs  |
| Current consumption power contacts | typ. 25 mA  |
| Current consumption E-bus          | typ. 140 mA   |
| Bit width in the process image     | 1 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  |