



EL2014 | 4-channel digital output terminal 24 V DC, 0.5 A, with diagnostics

The EL2014 digital EtherCAT terminal connects the binary control signals from the automation device on to the actuators at the process level. It is suitable for the connection of four actuators in 1-wire technology. The EL2014 is protected against polarity reversal and processes load currents with outputs protected against overload and short-circuit. The integrated diagnostics can be evaluated in the controller and is indicated by the LEDs. Overtemperature and the lack of a voltage supply to the terminal are supplied as diagnostic information. Beyond that each channel can among other things signal a short circuit individually. The output behavior of the channels in the case of a bus error can be parameterised. Maintenance of the application is simplified by the diagnostics. The power contacts are continuous; reference potential of the outputs is the 0 V power contact. The outputs are fed via the 24 V power contact.

Technical data	EL2014
Connection technology	1-wire
Number of outputs	4
Nominal voltage	24 V DC (-15 %/+20 %)
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 A
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Switching times	typ. T _{ON} : 50 µs, typ. T _{OFF} : 100 µs
Current consumption E-bus	typ. 60 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 15 mA + load
Bit width in the process image	4 bit output, 20 bit diagnostics
Configuration	via TwinCAT System Manager
Special features	diagnostics via process data and LED: overtemperature, PowerFail, short circuit (per channel)
Weight	approx. 70 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
Approvals	CE, Ex, IECEx