



## EL2809 | HD EtherCAT Terminal, 16-channel digital output 24 V DC, 0.5 A

The EL2809 digital output terminal connects the binary control signals from the automation device on to the actuators at the process level with electrical isolation. The EL2809 is protected against polarity reversal and processes load currents with outputs protected against overload and short-circuit. The EtherCAT Terminal contains 16 channels, whose signal states are displayed by LEDs. The terminal is particularly suitable for space-saving use in control cabinets. The connection technology is particularly suitable for single-ended inputs. All components have to use the same reference point as the EL2809. The power contacts are looped through.

The outputs are fed via the 24 V power contact in the EL2809. The conductors can be connected without tools in the case of solid wires using a direct plug-in technique.

The HD EtherCAT Terminals (High Density) with increased packing density feature 16 connection points in the housing of a 12 mm terminal block.

Technical data	EL2809
Connection technology	1-wire
Number of outputs	16
Nominal 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. < 2 A
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Switching times	typ. $T_{ON}$ : 60 $\mu$ s, typ. $T_{OFF}$ : 300 $\mu$ s
Current consumption E-bus	typ. 140 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 35 mA + load
Bit width in the process image	16 outputs
Configuration	no address or configuration setting
Conductor types	solid wire, stranded wire and ferrule
Conductor connection	solid wire conductors: direct plug-in technique; stranded wire conductors and ferrules: spring actuation by screwdriver
Rated cross-section	solid wire: 0.08...1.5 mm <sup>2</sup> ; stranded wire: 0.25...1.5 mm <sup>2</sup> ; ferrule: 0.14...0.75 mm <sup>2</sup>
Weight	approx. 70 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
Approvals/markings	CE, UL, ATEX, IECEx
Ex-Marking	II 3 G Ex nA IIC T4 Gc Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc