



25 g

EL2819 | HD EtherCAT Terminal, 16-channel digital output 24 V DC, 0.5 A, with diagnostics

The EL2819 EtherCAT Terminal has 16 digital output channels for the switching of 24 V loads up to 0.5 A. The integrated diagnostics can be evaluated by the controller and indicated by the LEDs. Overtemperature and the lack of a voltage supply to the terminal are supplied as diagnostic information. Moreover, each of the channels can signal e.g. a short circuit. The switching state and any error of the output are indicated by the LED. Maintenance of the application is simplified by the diagnostic function. The power contacts are connected through; reference ground of the outputs is the 0 V power contact. The outputs are electrically isolated from the fieldbus side.

Technical data	EL2819
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
Output stage	push (high-side switch)
Short-circuit current	typ. < 1 A
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Current consumption E-bus	typ. 90 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 50 mA + load
Bit width in the process image	16 bit output and diagnostics
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 ² ; stranded wire: 0.25...1.5 mm ² ; ferrule: 0.14...0.75 mm ²
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/see documentation
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc