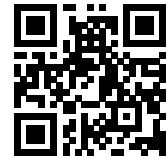


EL2911 | EtherCAT Terminal, 4-channel digital input + 1-channel digital output, 24 V DC, 10 A, TwinSAFE, TwinSAFE Logic



Top view

i Product status: Regular delivery

The EL2911 TwinSAFE component is a potential supply terminal and enables the setup of TwinSAFE groups with a safe power supply (24 V DC, up to 10 A). If the TwinSAFE terminal detects an error, it switches to the safe state (fail-safe). Safe potential groups can be created within a terminal segment using the EL2911. Thus, interference-free standard terminals can be safely switched off and integrated into the safety application. In addition, the EL2911 has four safe inputs. The safety-relevant data are exchanged via FSoE with a TwinSAFE Logic-capable component.

The safety parameters are not stored directly on the component, but are transmitted to the input terminal via a TwinSAFE Logic-capable component when the safety application is started. This simplifies service procedures, because in this case the component can simply be replaced. The safety-relevant parameters are transferred to the new component when the safety application is restarted.

A further highlight of the EL2911 is the integration of the functionality of the EL6910 TwinSAFE Logic. The EL2911 can thus also be used as a safety controller at any time. With the help of the locally available inputs and outputs, a complete safety application can thus be realized directly on the terminal. The range of functions corresponds to that of the EL6910. The only difference at this point is the limitation of the number of possible safe connections to 128. Apart from that, all the advantages of the new generation of safety controllers can be used (see EL6910 customizing, incremental download, analog value processing, etc.).

Special features:

- 4 safe inputs
- 1 safe output with 10 A
- integrated TwinSAFE Logic (functionality similar to the EL6910)
- up to 128 safe connections
- complete safety loop can be realized directly on the component
- safe potential groups for the safe shutdown of interference-free standard components

- fine granular configuration of the test pulses of the individual input channels
- Standard outputs can be activated with integrated ANDing with a safe output signal

Product information

Technical Data

Technical data	EL2911
Connection technology	1-/2-wire and/or via power contacts
Specification	link unit between safe input and output signals
Number of outputs	1
Max. output current	10 A
Protocol	TwinSAFE/Safety over EtherCAT
Fault response time	≤ watchdog time (parameterizable)
Current consumption power contacts	load-dependent
Current consumption E-bus	typ. 180 mA
Installation position	horizontal
Safety standard	EN ISO 13849-1:2015 (Cat. 4, PL e) and EN 61508:2010 (SIL 3)
Weight	approx. 98 g
IP protection rating	IP20

Housing data	EL-24-2x8pin
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	24 mm x 100 mm x 68 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxx series
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A

*s: solid wire; st: stranded wire; f: with ferrule