



EL6900 | TwinSAFE Logic

TwinSAFE enables networks with up to 1,024 TwinSAFE devices. The TwinSAFE Logic can establish 128 connections to other TwinSAFE devices. Multiple EL6900 are cascable within a network. The EtherCAT Terminal features certified safety function blocks, which are configured according to the application to be realised. Safety functions such as emergency stop, safety door monitoring, two-hand control, etc. can thus easily be selected and linked. All blocks can be freely connected among each other and are complemented by operators such as AND, OR, etc. The required functions are configured via the TwinCAT System Manager and loaded into the EL6900 TwinSAFE Logic via the fieldbus.

Technical data	EL6900
Specification	link unit between safe input and output signals
Protocol	TwinSAFE/Safety over EtherCAT
Cycle time	approx. 500 µs/according to project size
Fault response time	≤ watchdog time (parameterisable)
Current consumption power contacts	–
Current consumption E-bus	typ. 188 mA
Installation position	horizontal
Safety standard	DIN EN ISO 13849-1:2008 (Cat. 4, PL e) and EN 61508:2010 (SIL 3)
Weight	approx. 50 g
Protection class	IP 20
Approvals/markings	Overview of TwinSAFE Certifications (PDF)
Ex marking	II 3 G Ex nA IIC T4 Gc
Download EtherCAT slave information (ESI)	ESI config file ELx9xx (ZIP)

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