



EL6900 | TwinSAFE PLC

TwinSAFE enables networks with up to 1,024 TwinSAFE devices. The TwinSAFE PLC can establish 128 connections to other TwinSAFE devices. Multiple TwinSAFE PLCs 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 PLC via the fieldbus. The EL6900 is suitable for applications up to SIL 3 according to IEC 61508 and DIN EN ISO 13849 PL_e.

Technical data	EL6900
Technology	TwinSAFE PLC
Safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL _e
Protocol	TwinSAFE/FSoE
Status display	4 LEDs
Connections to other TwinSAFE devices	max. 128
Function blocks	max. 255
Cycle time	500 µs...~25 ms
Current consumption E-bus	approx. 188 mA
Fault response time	≤ watchdog time (parameterisable)
Bit width in the process image	6...1,498 bytes
Supply voltage	24 V DC (-15 %/+20 %)
Special features	backup restore
Weight	approx. 50 g
Operating/storage temperature	0...+55 °C/-25...+70 °C
Permiss. degree of contamin.	2
Climate class EN60721-3-3	3K3
Electrical interference	EN 61000-6-2/EN 61000-6-4
Vibration/shock resistance	EN 60068-2-6/EN 60068-2-27/29
Installation position	horizontal
Protection class	IP 20
Approvals	CE, UL, Ex, TÜV Süd