



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 cascadable 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. 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 Logic
Safety standard	DIN EN ISO 13849-1:2008 (Cat 4, PL e) and IEC 61508:2010 (SIL 3)
Protocol	TwinSAFE/Safety over EtherCAT
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 %)
Nominal voltage	24 V DC (-15 %/+20 %)
Special features	backup restore
Weight	approx. 50 g
Operating/storage temperature	-25...+55 °C/-40...+70 °C
Permitted degree of contamination	2
Climate class EN 60721-3-3	3K3
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
Installation position	horizontal
Protection class	IP 20
Approvals	CE, UL, Ex, TÜV SÜD