



EL6930 | TwinSAFE/PROFIsafe logic and gateway terminal

The EL6930 logic terminal enables networks with up to 127 TwinSAFE/FSoE devices. It can be operated as a slave in a PROFIsafe control (V.2). This gateway functionality enables safe data transfer between a PROFIsafe and a TwinSAFE network. Multiple logic terminals are cascable within a network. The EtherCAT Terminal features certified safety function blocks, which are configured according to the application to be realised. Functions such as emergency stop, safety door monitoring, 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 EL6930 logic terminal via the fieldbus. It offers a gateway functionality between safe TwinSAFE and PROFIsafe networks. The EL6930 is suitable for applications up to SIL 3 according to IEC 61508 and PL e according to DIN EN ISO 13849-1.

Technical data	EL6930
Technology	TwinSAFE/PROFIsafe logic and gateway terminal
Safety standard	DIN EN ISO 13849-1:2008 (Cat 4, PL e) and IEC 61508:2010 (SIL 3)
Protocol	TwinSAFE/Safety over EtherCAT, PROFIsafe
Status display	4 LEDs
Connections to other TwinSAFE devices	max. 128
Connections to PROFIsafe devices	max. 1 (EL6930 is a slave)
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 %)
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, TÜV SÜD