



## KL6904 | TwinSAFE Logic Bus Terminal

TwinSAFE enables networks with up to 1,024 TwinSAFE devices. The KL6904 TwinSAFE Logic Bus Terminal can establish 15 connections (TwinSAFE connections). Multiple Logic Terminals are cascadable within a network. The Bus 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 KL6904 Logic Terminal via the fieldbus. The TwinSAFE logic terminal has four safe, local outputs, so that safety applications can be realised with only two components (KL1904 and KL6904). The KL6904 is suitable for applications up to SIL 3 according to IEC 61508 and DIN EN ISO 13849 PL<sub>e</sub>.

Technical data	KL6904
Technology	TwinSAFE Logic
Safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL <sub>e</sub>
Number of outputs	4
Protocol	TwinSAFE/FS <sub>o</sub> E
Status display	8 LEDs: 1 per output, 4 diagnostic
Cycle time	4...100 ms
Current consumpt. K-bus	250 mA
Fault response time	≤ watchdog time (parameterisable)
Bit width in the process image	6...192 bytes
Supply voltage	24 V DC (-15 %/+20 %)
Output current	0.5 A max./20 mA min. (per channel)
Special features	4 safe outputs
Weight	approx. 90 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

Special terminals	
KL6904-0001	TwinSAFE Logic Bus Terminal, preconfigured ex factory to 15 TwinSAFE connections