



Top view

Contact assembly

KL1904 | 4-channel digital input terminal, TwinSAFE, 24 V DC

The KL1904 safety Bus Terminal is a digital input terminal for sensors with potential-free contacts for 24 V DC and has four fail-safe inputs. The KL1904 meets the requirements of DIN EN ISO 13849-1:2008 (Cat 4, PL e) and IEC 61508:2010 (SIL 3).

Technical data	KL1904
Connection technology	2-wire
Safety standard	DIN EN ISO 13849-1:2008 (Cat 4, PL e) and IEC 61508:2010 (SIL 3)
Number of inputs	4
Protocol	TwinSAFE/Safety over EtherCAT
Status display	8 LEDs: 1 per input, 4 diagnostic
Response time	typ. 4 ms (read input/write to K-bus)
Current consumpt. K-bus	48 mA
Fault response time	≤ watchdog time (parameterisable)
Bit width in the process image	6 byte input/6 byte output
Supply voltage	24 V DC (-15 %/+20 %)
Special features	4 safe inputs
Weight	approx. 50 g
Operating/storage temperature	0...+55 °C/-25...+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