



Top view

Contact assembly

EL1904 | 4-channel digital input terminal, TwinSAFE, 24 V DC

The EL1904 EtherCAT Terminal is a digital input terminal for sensors with potential-free contacts for 24 V DC. The EtherCAT Terminal has four fail-safe inputs. The EL1904 meets the requirements of IEC 61508 SIL 3 and DIN EN ISO 13849 PL e.

Technical data	EL1904
Connection technology	1-/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 E-bus)
Current consumption E-bus	approx. 200 mA
Fault response time	≤ watchdog time (parameterisable)
Bit width in the process image	input: 6 byte; output: 6 byte
Supply voltage	24 V DC (-15 %/+20 %)
Nominal voltage	24 V DC (-15 %/+20 %)
Special features	4 safe inputs
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