



## EP1908-0002 | 8-channel digital input, TwinSAFE, 24 V DC

The EP1908 TwinSAFE EtherCAT Box is a digital input box for sensors with potential-free contacts for 24 V DC. It has 8 fail-safe inputs. The EP1908 meets the requirements of IEC 61508 SIL 3 and DIN EN ISO 13849 PL e.

Technical data	EP1908-0002
Connection technology	M12, screw type
Safety standard	DIN EN ISO 13849-1:2008 (Cat 4, PL e) and IEC 61508:2010 (SIL 3)
Number of inputs	8
Input connections	M12, screw type
Protocol	TwinSAFE/Safety over EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Status display	8 LEDs: 1 per input
Response time	typ. 4 ms (read input/write to bus)
Fault response time	≤ watchdog time (parameterisable)
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Bit width in the process image	input: 6 byte; output: 6 byte
Special features	8 safe inputs
Weight	approx. 165 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL, TÜV SÜD

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2000-6xxx-xxxx	Cables for M12 I/O connection sockets
ZK2020-3xxx-xxxx	Cables for M8 power supply