



EP1957-0022

## i EP1957-0022 | Digital combi module TwinSAFE, 24 V DC, 8 safe inputs, 4 safe outputs, TwinSAFE Logic

The EP1957-0022 TwinSAFE EtherCAT Box is a digital EtherCAT Box, which for the first time provides fail-safe digital outputs in an IP 67-protected module (4 outputs for 24 V DC actuators with up to 0.5 A). The EtherCAT Box also has eight fail-safe inputs for sensors with potential-free contacts for 24 V DC. For signal connection, M12 screw type connectors are used. Sensors are supplied with power from the load voltage  $U_p$ . The EP1957-0022 meets the requirements of IEC 61508 SIL 3 and DIN EN ISO 13849 PL e. Moreover, the EP1957-0022 integrates a programmable TwinSAFE Logic enabling the implementation of safety applications directly in the EtherCAT Box. Depending on the application, the safety-oriented information can be pre-processed directly in the IP 67 environment, so that the central TwinSAFE Logic need only process the information that is aggregated there.

Technical data	EP1957-0022
Connection technology	M12, screw type
Safety standard	EN ISO 13849-1:2015 (Cat. 4, PL e) and EN 61508:2010 (SIL 3)
Signal connection	M12, screw type
Number of inputs	8
Protocol	TwinSAFE/Safety over EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Number of outputs	4
Max. output current	0.5 A
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
Special features	8 safe inputs, 4 safe outputs, integrated TwinSAFE Logic
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, TÜV SÜD (certification in preparation)

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

<b>i</b> Product announcement	estimated market release on request
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