



EJ1957 | 8-channel digital input, 4-channel digital output, 24 V DC, TwinSAFE

The EJ1957 EtherCAT plug-in module is a digital input and output module for sensors with potential-free contacts for 24 V DC. The plug-in module has eight fail-safe inputs, four fail-safe outputs and meets the requirements of IEC 61508 SIL 3 and DIN EN ISO 13849 PL e.

Technical data	EJ1957
Safety standard	EN ISO 13849-1:2015 (Cat. 4, PL e) and EN 61508:2010 (SIL 3)
Number of inputs	8
Number of outputs	4
Protocol	TwinSAFE/Safety over EtherCAT
Nominal voltage	24 V DC (-15 %/+20 %)
Response time	typ. 4 ms (read input/write to E-bus)
Fault response time	≤ watchdog time (parameterisable)
Current consumption E-bus	typ. 330 mA
Bit width in the process image	input: 6 byte; output: 6...7 byte
Special features	8 safe inputs, 4 safe outputs
Weight	approx. 64 g
Dimensions (W x H x D)	12 mm x 152 mm x 55 mm
Operating/storage temperature	-25...+55 °C/-40...+70 °C
Relative humidity	95 %, no condensation
Climate class EN 60721-3-3	3K3
Permitted degree of contamination	2
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protection class	IP 20
Approvals	CE, TÜV SÜD

Related products	
EJ1914	EtherCAT plug-in module, 4-channel digital input, TwinSAFE, 24 V DC
EJ1918	EtherCAT plug-in module, 8-channel digital input, TwinSAFE, 24 V DC
EJ2914	EtherCAT plug-in module, 4-channel digital output, TwinSAFE, 24 V DC, 0.5 A
EJ2918	EtherCAT plug-in module, 8-channel digital output, TwinSAFE, 24 V DC, 0.5 A
EJ6910	TwinSAFE Logic