



EJ6224-0090 | IO-Link master with TwinSAFE SC

IO-Link The EJ6224-0090 IO-Link master enables the connection of up to four IO-Link devices. IO-Link devices can be actuators, sensors or a combination of both. A point-to-point connection is used between the EtherCAT plug-in module and the device. The EJ6224-0090 is parameterised via the EtherCAT master. IO-Link is designed as an intelligent link between the fieldbus level and the sensor, with parameterisation information being exchanged bi-directionally via the IO-Link connection. The IO-Link device is parameterised with service data from TwinCAT via ADS or very conveniently using the integrated IO-Link commissioning tool. Among other things the tool enables automatic scanning of IO-Link devices, comfortable editing of sensor parameters and an integrated online search for sensor description files.

With the aid of the TwinSAFE SC technology (TwinSAFE Single Channel) it is possible to make use of standard signals for safety tasks in any network or fieldbus. The standard functions and features of the I/Os remain available. The data from these TwinSAFE SC I/Os is fed to the TwinSAFE Logic, where they undergo safety-related multi-channel processing. In the safety logic the data originating from different sources is analysed, checked for plausibility and submitted to a "voting". This is done by certified function blocks such as Scale, Compare/Voting (1oo2, 2oo3, 3oo5), Limit, etc. For safety reasons, however, at least one of the data sources must be a TwinSAFE SC component. The remainder of the data can originate from other standard I/Os, drive controllers or measuring transducers.

With the aid of the TwinSAFE SC technology it is typically possible to achieve a safety level equivalent to PL d/Cat. 3 in accordance with EN ISO 13849-1 or SIL 2 in accordance with EN 62061.

Technical data	EJ6224-0090
Technology	IO-Link
Specification version	IO-Link V1.1
IO-Link interfaces	4
Connection method	3-wire
Capture/compare input/output	1/2
Field voltage	24 V DC via power contacts
Supply voltage electronics	24 V DC (via E-bus and distribution board)
Cable length	max. 20 m
Data transfer rates	4.8 kbaud, 38.4 kbaud and 230.4 kbaud
Supply current for devices	500 mA per device
Current consumption E-bus	typ. 110 mA
Special features	IO-Link configuration tool integrated in TwinCAT: IO-Link sensor scan, comfortable sensor parameter handling, sensor description file finder
Electrical isolation	500 V (E-bus/signal voltage)
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
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 20/see documentation
Approvals	CE

System	
IO-Link	For further IO-Link products please see the system overview .