Kuhnke FIO Safety PLC

Safety PLC

Kuhnke FIO Safety PLC is a module intended to be integrated in EtherCAT® networks. Acting as the FSoE master, it is able to address any FSoE slave including safety I/Os, motion controllers, valve islands and other FSoE equipment.

Features

- The Safety PLC meets the requirements of IEC 61508 SIL3 and DIN EN ISO 13849 PLe.
- CODESYS version 3.5 SP5 or higher is used for programming.
- The CODESYS safety function modules have been certified previously, thus considerably reducing the efforts of developing, verifying and approving a safety application.
- The main controller's CODESYS environment and the EtherCAT link are used for programming the Safety PLC as well.

Technical data	
Type	**Safety control unit**
Safety protocol	FSoE
Safety standard	IEC 61508 SIL3 and DIN EN ISO 13849-1 PLe
Permits	CE, cULus (planned), TÜV Rheinland
Runtime system	CODESYS RT Safety
Programming tool	CODESYS V3.5 SP5 or higher with integrated safety function modules
E-bus power consumption	200 - 300 mA
Power supply voltage	From bus coupler through E-bus connector
Electrical interference	EN 61000-6-2/ EN 61000-6-4
Resistance to vibration	EN 60068-2-6
Resistance to shock	EN 60068-2-27
Fieldbus port	EtherCAT® 100 Mbps LVDS: E-bus
Installation / mounting pos.	35 mm DIN rail / horizontal
Signal indication	Status LEDs (EtherCAT, Safety, Power)
Shield	Provided directly by the module
Terminals	-
Ambient conditions	0 °C …+55 °C, IP 20
Housing	Plastic shroud over aluminium frame, 25 x 120 x 90 mm