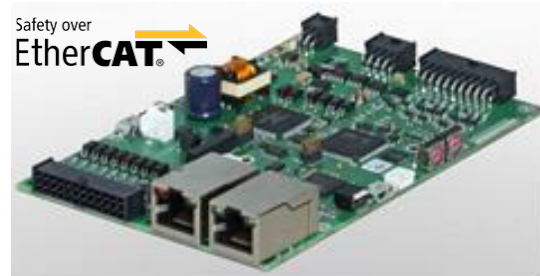


FS-PLC04 | safety programmable logic controller

Area of application

The FS-PLC04 is a safety PLC with FSoE master functionality and safe digital inputs and outputs. With this safety PLC all currently common safety applications for machines can be realized.



The FSoE master ...

- ... supports up to **20 master-slave connections**
- ... supports **safety parameters**
- ... supports Safety Related Application (**SRA**) parameters
- ... is configured via **FS-PLC Designer**
- ... communicates via **EtherCAT** as slave

The Safety programmable logic controller ...

- ... is configured and programmed using **FS-PLC Designer**
- ... is programmed using function block diagram (**FBD**) according to **EN 61131-3**
- ... provides simple and complex function blocks (**PLCopen**)
- ... has **16 digital inputs**, which fulfill the safety level **SIL3 and PLe/Kat.4** when two input channels are used as a pair
- ... has **6 digital outputs** which already fulfill safety level **SIL3 and PLe/Cat.4** with single-channel use (depending on the load switching)
- ... can also be used as a safe **stand-alone PLC** without FSoE and EtherCAT

The PLC project consists of:

- (1) EtherCAT slave configuration
- (2) FSoE master configuration
- (3) Local IO configuration and
- (4) the PLC program.

The transfer of the PLC project is done via **USB** or **EtherCAT** to the FS-PLC04 target.



Technical data

Power supply

Logic	24 V DC (SELV or PELV)
Inputs	24 V DC (SELV or PELV)
Outputs	24 V DC (SELV or PELV)

Operating conditions

ambient temperature	0 °C bis +55 °C
relative air humidity	5 % to 95 %, non-condensing

Conformity

Machinery Directive	2006/42/EG
EMC Directive	2014/30/EU

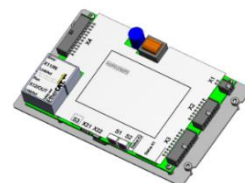
Safety indices

EN ISO 13849-1	Category 4, PL e
EN 61508	SIL 3

Housing variants

Variant I

- Can be **mounted in customer's housing** or control cabinet
- **Cost optimized**
- Connection via pre-assembled cable harness
- **Best for series production**
- Dimensions: 142mm x 90mm x 21mm (HxWxD)



Variant II

- For **mounting in control cabinet** or comparable housing with protection class IP54
- **Flexible mounting** possible **without DIN rail**
- Dimensions: 140mm x 24mm x 98mm (HxWxD)



Variant III

- For **mounting in control cabinet** or comparable housing with protection class IP54
- **Space-saving mounting on DIN rail**
- Dimensions: 131mm x 24mm x 98mm (HxWxD)



Variant IV

- Protection class IP65
- Can be **mounted directly on the machine**
- Connection via standardized M12 round connectors
- Dimensions: 160mm x 145mm x 80mm (HxWxD)

