



Flexi Soft

The software-programmable safety controller

SAFETY CONTROLLERS

SICK
Sensor Intelligence.



Technical data overview

Safety integrity level	SIL3 (IEC 61508) SILCL3 (EN 62061) SILCL3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
Configuration method	Via software
System construction	Modular 1 system plug 1 main module 0 ... 2 gateways 0 ... 12 expansion modules 0 ... 8 relay modules
Fieldbus, industrial network	CANopen, CC-Link, DeviceNet™, EtherNet/IP™, Ether-CAT®, Modbus, PROFINET, PROFIBUS DP, EFI-pro, SSI, Incremental, Serial (depending on type)
Safe SICK device communication	EFI EFI-pro (depending on type)
Safe networking	Flexi Link Flexi Line
Safe drive monitoring	✓
Flexi Loop-compatible	✓

Product description

The Flexi Soft safety controller can be programmed via software. Thanks to the modular hardware platform, Flexi Soft provides a tailored and efficient solution for a whole host of safety applications. A wide range of modules are available: main modules, gateways, digital and analog input/output modules, Motion Control modules, as well as relay modules. The license-free Flexi Soft Designer configuration software enables intuitive programming, rapid commissioning, and continuous diagnostics down to the automation level. Functions to enable safe controller networking, safe series connection, or safe drive monitoring reduce costs and boost productivity. A whole host of additional functions means that Flexi Soft is able to bridge the gap to system solutions from SICK.

At a glance

- Safety controller with modular hardware platform
- Configuration saved in the system plug
- Safe controller networking with Flexi Line
- Safe series connection with Flexi Loop
- Safe drive monitoring
- Safe analog value monitoring
- Flexi Soft Designer license-free configuration software

Your benefits

- Modular adaptation to the particular requirement means optimum scalability and therefore cost savings
- Intuitive configuration software featuring comprehensive functions for straightforward engineering
- Rapid verification of the safety application: The configuration software provides documentation and a wiring diagram
- The main module's diagnostics interfaces and the configuration storage facility in the system plug enable rapid commissioning, component replacement, and troubleshooting, resulting in minimum downtimes

Fields of application

- Machines requiring average to complex safety logic, e.g., presses and laser cutting systems
- Machines with a large number of doors and flaps that require protective measures, as well as with decentralized safety paths, such as packaging machines
- Modular machine concepts and networked safety functions

Ordering information

Other models and accessories → www.sick.com/Flexi_Soft

Main modules

Number of EFI interfaces	Flexi Link	Automatic Configuration Recovery (ACR)	Flexi Line	Protective coating	Type	Part no.
0	-	-	-	✓	FX3-CPU000010	1050615
				-	FX3-CPU000000	1043783
2	✓	✓	✓	-	FX3-CPU320002	1059305
			-	-	FX3-CPU230002	1058999
		-	-	✓	FX3-CPU130012	1050616
			-	-	FX3-CPU130002	1043784

Gateways

Fieldbus, industrial network	Type	Part no.
CANopen	FX0-GCAN00000	1044076
CC-Link	FX0-GCC100200	1085195
DeviceNet™	FX0-GDEV00000	1044077
EFI-pro, EtherNet/IP™	FX3-GEPRO0000	1069070
EtherCAT®	FX0-GETC00000	1051432
EtherNet/IP™	FX0-GENT00000	1044072
Modbus	FX0-GMOD00000	1044073
PROFIBUS DP	FX0-GPRO00000	1044075
PROFINET	FX0-GPNT00000	1044074

I/O modules

Number of safety inputs	Number of non-safe inputs	Number of test outputs	Number of safe outputs	Number of non-safe outputs	Protective coating	Type	Part no.
-	6-8	-	-	6-8	-	FX0-STI068002	1061778
8	-	0-2	-	4-6	-	FX3-XTDS84002	1061777
		2	4	-	✓	FX3-XTI084012	1050618
					-	FX3-XTI084002	1044125
		8	-	-	✓	FX3-XTDI80012	1050617
					-	FX3-XTDI80002	1044124

Analog input module

Number of analog inputs	Type	Part no.
2	FX3-ANA020002	1051134

Motion Control module

Description	Type	Part no.
Safe speed monitoring	FX3-MOC000000	1062344
Safe speed monitoring and safe position monitoring	FX3-MOC100000	1057833

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com