FX0-STIO68002

Safe EFI-pro System

SAFETY SYSTEMS FOR AGVS AND AMRS

SICK
Sensor Intelligence.

Ordering information

Number of non-safe inputs	Number of non-safe outputs	Type	Part no.
6-8	6-8	FX0-STIO68002	1061778

Other models and accessories ➜ www.sick.com/Safe_EFI-pro_System

Detailed technical data

Features

Module	I/O module
Configuration method	Via software (Flexi Soft Designer, Safe EFI-pro System: Safety Designer)

Interfaces

Number of non-safe inputs	6-8 [1]
Number of non-safe outputs	6-8 [1]
Connection type	Plug-in spring terminals

[1] The FX0-STIO features 6 non-safe inputs and 6 non-safe outputs. In addition, 2 connections can be used both as non-safe inputs and non-safe outputs.

Electrical data

Protection class	III (EN 61140)
Voltage supply	Via FLEXBUS+
Internal power consumption	≤ 1.5 W [1]
Inputs	
Input voltage HIGH	13 V DC … 30 V DC
Input voltage LOW	−5 V DC … 5 V DC
Input current HIGH	2.4 mA … 3.8 mA
Input current LOW	−2.5 mA … 2.1 mA
Outputs	
Voltage supply	Via A1, A2
Supply voltage	24 V DC (16.8 V DC … 30 V DC)
Type of supply voltage	PELV or SELV [2]
Type of output	PNP semiconductors, short-circuit protected

[1] Via FLEXBUS+.

[2] The current of the power supply that powers the module must be limited to a maximum of 4 A, either through the power supply itself or a fuse.

Output voltage HIGH	16 V DC … 30 V DC
Output current	≤ 500 mA

[1] Via FLEXBUS+.

[2] The current of the power supply that powers the module must be limited to a maximum of 4 A, either through the power supply itself or a fuse.

Mechanical data

Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.6 mm
Weight	139 g (± 5 %)

Ambient data

Enclosure rating	IP20 (EN 60529)
Ambient operating temperature	–25 °C … +55 °C
Storage temperature	–25 °C … +70 °C
Air humidity	≤ 95 %, Non-condensing

Classifications

ECLASS 5.0	27243001
ECLASS 5.1.4	27243101
ECLASS 6.0	27243101
ECLASS 6.2	27243101
ECLASS 7.0	27243101
ECLASS 8.0	27243101
ECLASS 8.1	27243101
ECLASS 9.0	27243101
ECLASS 10.0	27243101
ECLASS 11.0	27243101
ECLASS 12.0	27243101
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	32151705

Recommended accessories

Other models and accessories ➜ www.sick.com/Safe_EFI-pro_System

	Brief description	Type	Part no.
Others			
	• **Sub product family:** SIM1000 FX • **Product category:** Programmable devices • **Supported products:** 2D and 3D LiDAR sensors, pico- und midiCam series, incremental and absolute encoders, Image-based code readers, Fixed mount barcode scanners, RFID read/write device, displacement measurement sensors, Photoelectric sensors, Flexi Soft main module	SIM1000-0P0B110	1097817

	Brief description	Type	Part no.
	• **Processor:** Dual-core ARM Cortex-A9 CPU with NEON accelerator • **Toolkit:** SICK algorithm API • **Further functions:** FPGA for I/O handling • **Connections:** Terminal block 1-4, Ethernet, FLEXBUS+ • **Enclosure rating:** IP20		
Safety switching amplifier			
	• **Applications:** Output expansion module for OSSDs • **Compatible sensor types:** Safety sensors with OSSDs • **Connection type:** Front connector with spring terminals • **Restart interlock:** no • **External device monitoring (EDM):** Via path • **Outputs:** 2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe) • **Housing width:** 18 mm	RLY3-OSSD100	1085343
	• **Applications:** Output expansion module for OSSDs • **Compatible sensor types:** Safety sensors with OSSDs • **Connection type:** Front connector with spring terminals • **Restart interlock:** no • **External device monitoring (EDM):** Via path • **Outputs:** 4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe) • **Housing width:** 28 mm	RLY3-OSSD400	1099971

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."

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