



SICK Sensor Intelligence.

SAFETY CONTROLLERS

FX0-STI068012 | Flexi Soft

SAFETY CONTROLLERS



Ordering information

Number of non- safe inputs	Number of non- safe outputs	Protective coating	Туре	Part no.
6-8	6-8	1	FX0-STI068012	1112297

Protective coating for more challenging ambient conditions (e.g., resistance to sulfur).

Other models and accessories -> www.sick.com/Flexi_Soft



Detailed technical data

Features

Module	I/O module
Configuration method	Via software (Flexi Soft Designer, Safe EFI-pro System: Safety Designer)
Specialty	Protective coating for more challenging ambient conditions (e.g., resistance to sulfur).
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⁾

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.

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Type of output PNP semiconductors, short-circuit protected	
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
Single gas resistance (sulfur dioxide)	25 ppm, 21 days, 25 °C (IEC 60068-2-42 - Kc)
Mixed gas resistance	100 ppb - H ₂ S 2000 ppb - NO ₂ 100 ppb - Cl ₂ 2,000 ppb - SO ₂ , 21 days, 30 °C (IEC 60068-2-60 Ke)

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

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Recommended accessories

Other models and accessories -> www.sick.com/Flexi_Soft

	Brief description	Туре	Part no.
Others			
	 Sub product family: SIM1000 FX Product category: Programmable devices Supported products: 2D and 3D LiDAR sensors, 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 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 	SIM1000-0P0B110	1097817
Safety switch	ing 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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

