



FX0-STI068012

Flexi Soft

SAFETY CONTROLLERS

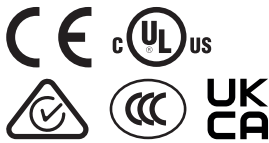
SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|---------------|----------|
| FX0-STI068012 | 1112297 |

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-STI0 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.

Electronics

| | |
|-----------------------------------|---------------------------------|
| 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.

| | |
|---------------------|---|
| 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.

Mechanics

| | |
|-------------------------------|------------------------------|
| 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) |

Certificates

| | |
|--|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| China RoHS | ✓ |
| CCC certificate | ✓ |
| cULus certificate | ✓ |
| Information according to Art. 3 of Data Act (Regulation EU 2023/2854) | ✓ |



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/Flexi_Soft

| | Brief description | Type | part no. |
|---|---|--------------|-----------------|
| Safety relays | | | |
|  | <ul style="list-style-type: none"> • 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 |
|  | <ul style="list-style-type: none"> • 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 |

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