



FX3-CPU230002

Flexi Soft

SAFETY CONTROLLERS

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|---------------|----------|
| FX3-CPU230002 | 1058999 |

The system plug has to be ordered separately. For details, see "Accessories".

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



Detailed technical data

Features

| | |
|-----------------------------|---|
| Module | Main module |
| Configuration method | Via software |
| Note | The system plug has to be ordered separately. For details, see "Accessories". |

Safety-related parameters

| | |
|---|--|
| Safety integrity level | SIL3 (IEC 61508) SILCL3 (EN 62061) |
| Category | Category 4 (EN ISO 13849) |
| Performance level | PL e (EN ISO 13849) |
| PFH_D (mean probability of a dangerous failure per hour) | 1.69 x 10 ⁻⁹ (EN ISO 13849) |
| T_M (mission time) | 20 years (EN ISO 13849) |

Functions

| | |
|---|-----|
| Safe SICK device communication | EFI |
| Safe networking | |
| Flexi Link | ✓ |
| Automatic Configuration Recovery (ACR) | ✓ |

Interfaces

| | |
|--|-------------------------------------|
| System connection | System plug ¹⁾ |
| Number of EFI interfaces | 2 |
| Connection type | Spring terminals |
| Configuration and diagnostics interface | RS-232 (M8 female connector, 4-pin) |

¹⁾ The system plug has to be ordered separately. For details, see "Accessories".

Electrical data

| | |
|-------------------------------------|---------------------------------|
| Protection class | III (EN 61140) |
| Type of voltage supply | PELV or SELV ¹⁾ |
| Supply voltage V_s | 24 V DC (16.8 V DC ... 30 V DC) |
| Internal power consumption | ≤ 2.5 W |
| Overvoltage category | II (EN 61131-2) |
| Switch-on time | ≤ 18 s |

¹⁾ The current of the power supply that powers the main unit 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 | 119 g (± 5 %) |

Ambient data

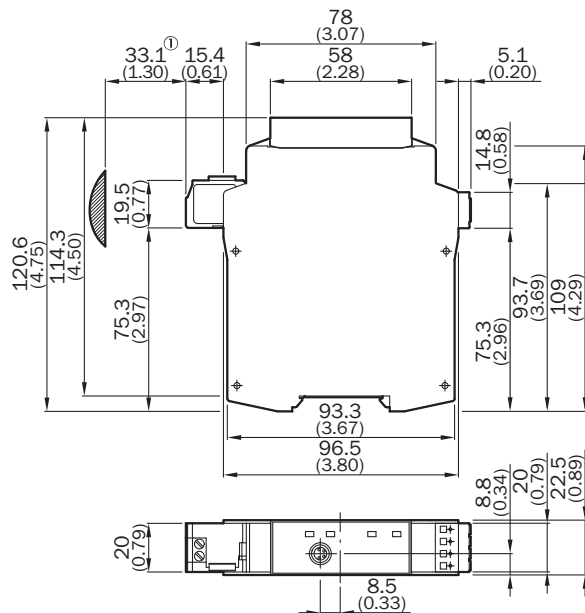
| | |
|--------------------------------------|-------------------------------|
| Enclosure rating | IP20 (EN 60529) |
| Ambient operating temperature | -25 °C ... +55 °C |
| Storage temperature | -25 °C ... +70 °C |
| Air humidity | 10 % ... 95 %, Non-condensing |

Classifications

| | |
|-----------------------|----------|
| ECI@ss 5.0 | 27242290 |
| ECI@ss 5.1.4 | 27249090 |
| ECI@ss 6.0 | 27249090 |
| ECI@ss 6.2 | 27249090 |
| ECI@ss 7.0 | 27249090 |
| ECI@ss 8.0 | 27249090 |
| ECI@ss 8.1 | 27249090 |
| ECI@ss 9.0 | 27249090 |
| ETIM 5.0 | EC002632 |
| ETIM 6.0 | EC002632 |
| UNSPSC 16.0901 | 32151705 |

Dimensional drawing (Dimensions in mm (inch))




FX3-CPU1, FX3-CPU2



① Approximate connector range

Recommended accessories

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

| Brief description | | Type | Part no. |
|---|--|--------------------|----------|
| Plug connectors and cables | | | |
|  | Head A: male connector, M8, 4-pin, straight Head B: male connector, USB-A, straight Cable: PVC, unshielded, 2 m | DSL-8U04G02M025KM1 | 6034574 |
|  | Head A: male connector, M8, 4-pin, straight Head B: male connector, USB-A, straight Cable: PVC, unshielded, 10 m | DSL-8U04G10M025KM1 | 6034575 |
|  | For FX3-CPU2 and FX3-CPU3, System plug: Voltage supply of the Flexi Soft system, storage of system configuration (including EFI-compatible devices), and automatic configuration of connected EFI-compatible safety sensors (automatic configuration recovery) | FX3-MPL100001 | 1047162 |

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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