ONLINE DATA SHEET
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Safety controllers
Flexi Soft Main unit

FX3-CPU000000

SICK
Sensor Intelligence.

Safety controllers
Flexi Soft Main unit

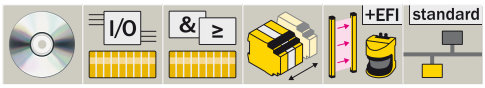
Model Name > FX3-CPU000000
Part No. > 1043783

At a glance

- RS-232 connection for configuration and real-time diagnostics
- Storage of EFI sensor configuration data in the system plug using Automatic Configuration Recovery (ACR)
- Safety networking of up to four Flexi Soft stations
- Up to 12 expansion modules
- Up to two gateways
- Compact, 22.5 mm width

Your benefits

- System plug enables fast commissioning
- Less downtime due to gateways, e.g., PROFINET I/O, PROFIBUS-DP, EtherCAT, CANopen, Modbus TCP, Ethernet (TCP/IP), DeviceNet
- Safe communication without additional hardware reduces costs and saves time
- RS-232 connection is standard with all main modules, enabling real-time diagnostics for fast commissioning, faster troubleshooting and reduced downtime
- Via Automatic Configuration Recovery (ACR) easy change of EFI sensors without the help of any tools



Safety-related parameters

Safety integrity level:	SIL3 (IEC 61508), SILCL3 (IEC 62061)
Category:	Category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	1.07 * 1E-09
TM (mission time):	20 a

Functions

Reset/restart:	Manual/automatic/configurable
External device monitoring (EDM):	✓
Muting:	✓
Operating mode switching:	✓
Number of logical connections:	255
Logical functions:	AND, NOT, OR, XNOR, XOR
Application-specific logical functions:	Operating mode switch, Muting, Emergency stop, Presses, Two-hand control
Safe device communication via EFI/SDL:	-

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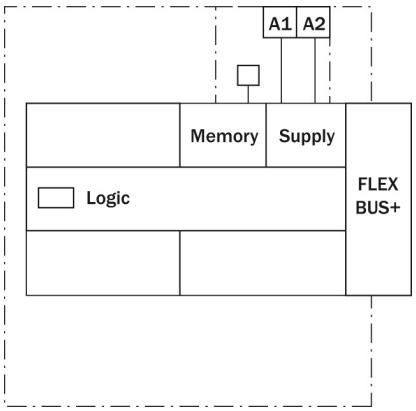
Electrical data

Supply voltage:	24 V DC (16.8 V DC ... 30 V DC)
Type of supply voltage:	PELV or SELV (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.)
Power consumption:	2.5 W
Protection class:	EN 61140
Short-circuit protection:	4 A gG
Switch-on time of inputs:	18 s
Configuration interface:	Internal bus (FLEX BUS+)

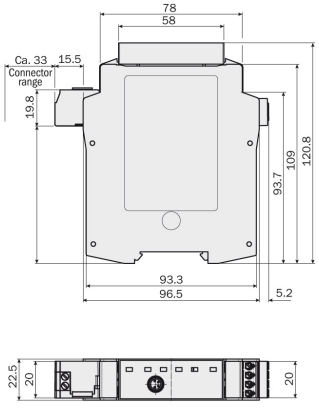
Ambient data

Enclosure rating terminals:	IP 20
Protection class housing:	IP 40
Ambient operating temperature:	-25 °C ... 55 °C
Storage temperature:	-25 °C ... 70 °C
Air humidity:	10 % ... 95 %, non-condensing
Climate conditions according to:	EN 61131-2 (55 °C operating temperature, 95% rel. humidity)
Electromagnetic compatibility (EMC):	EN 61000-6-2, EN 55011 EN 61131-2 (zone B)
Vibration resistance:	5 Hz ... 500 (EN 61131-2)
Connection type:	Plug
Dimensions (W x H x D):	22.5 mm x 96.5 mm x 120.8 mm
Weight:	111 g

Connection diagram



Dimensional drawing



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