

ONLINE DATA SHEET
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Safety controllers
Flexi Soft, main module, FX3-CPU3

FX3-CPU320002



SICK
Sensor Intelligence.

Safety controllers
Flexi Soft, main module, FX3-CPU3

Model Name > FX3-CPU320002
Part No. > 1059305



At a glance

- CPU0: Basic functions incl. RS-232 programming interface
- CPU1: CPU0 functions plus interface for advanced functions of SICK safety sensors
- CPU2: CPU1 functions plus backup function automatic configuration recovery (ACR)
- CPU3: CPU2 functions plus USB programming and Flexi Line interface
- Connection of up to 12 Flexi Soft expansion modules
- Connection of up to two Flexi Soft gateways

Your benefits

- System plug enables fast commissioning
- Less downtime since all status information can be transferred to every standard fieldbus system using Flexi Soft gateways
- Fast troubleshooting and minimum downtime due to real-time diagnostics
- Quick replacement of sensors due to automatic configuration recovery (ACR), which automatically configures newly connected sensors
- Fast, reliable communication among up to 32 Flexi Soft stations

Safety-related parameters

Safety integrity level:	SIL3 (IEC 61508) SILCL3 (EN 62061)
Category:	Category 4 (EN ISO 13849-1)
Performance level:	PL e (EN ISO 13849-1)
PFHd:	0.4 * 1E-09 (EN ISO 13849) 1.69 * 1E-09 (EN ISO 13849) [1)]
TM (mission time):	20 a (EN ISO 13849)

[1)] Applies for a main module FX3-CPU3 that is used exclusively for routing information via Flexi Line.

Functions

Restart interlock:	-
External device monitoring (EDM):	✓
Differentiation between man and material (muting):	✓
Safe SICK device communication via EFI/SDL:	✓
Flexi Link:	✓
Flexi Line:	✓
Automatic Configuration Recovery (ACR):	✓

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Mechanical data

Dimensions (W x H x D):	22.5 mm x 96.5 mm x 120.6 mm
Weight:	133 g (± 5 %)

Electrical data

Protection class:	III (EN 61140)
Type of voltage supply:	PELV or SELV [1)]
Supply voltage Vs:	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.

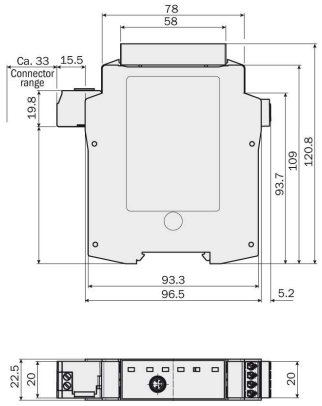
Interfaces

System connection:	System plug FX3-MPL100001
Connection type system plug:	Screw-type terminals
Connection type EFI connection:	Spring terminals
Connection type Flexi Line connection:	Spring terminals
Number of EFI interfaces:	2
Configuration and diagnostics interface:	RS-232, USB

Ambient data

Protection class housing:	IP 40 (EN 60529)
Enclosure rating terminals:	IP 20 (EN 60529)
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 ambient operating temperature, 95% rel. humidity)
Electromagnetic compatibility (EMC):	Class A (EN 61000-6-2, EN 55011)
Vibration resistance:	1 g, 5 Hz ... 150 Hz (EN 60068-2-6) 3 g RMS, 10 Hz ... 500 Hz (EN 60068-2-64)

Dimensional drawing



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