SICK.COM



DATA SHEET

FX3-CPU320002

Flexi Soft
Safety controllers

SICK Sensor Intelligence



SAFETY CONTROLLERS

FX3-CPU320002

ORDERING INFORMATION

Type	part no.
FX3-CPU320002	1059305

Further device versions and accessories at www.sick.com/Flexi_Soft

DETAILED TECHNICAL DATA

FEATURES

Module	Main module
Configuration method	Via software (Flexi Soft Designer)
Items supplied	Main module without system plug Terminal plug spring for EFI interface Terminal plug spring for Flexi-Line interface Safety instruction Operating instructions for download
Note	The system plug has to be ordered separately. For details, see “Accessories”.

SAFETY-RELATED PARAMETERS

Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	1.69×10^{-9} (EN ISO 13849) 0.4×10^{-9} (EN ISO 13849) [1]
T_M (mission time)	20 years (EN ISO 13849)

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

FUNCTIONS

Safe SICK device communication	✓
Safe networking	
Flexi Link	✓
Flexi Line	✓
Automatic Configuration Recovery (ACR)	✓

INTERFACES

System connection	System plug [1]
Number of EFI interfaces	2
Flexi Line connection	✓
Connection type	Plug-in spring terminals
Configuration and diagnostics interface	RS-232 (M8 female connector, 4-pin) Mini-USB

[1] The system plug has to be ordered separately. For details, see “Accessories”.

ELECTRONICS

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.

MECHANICS

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

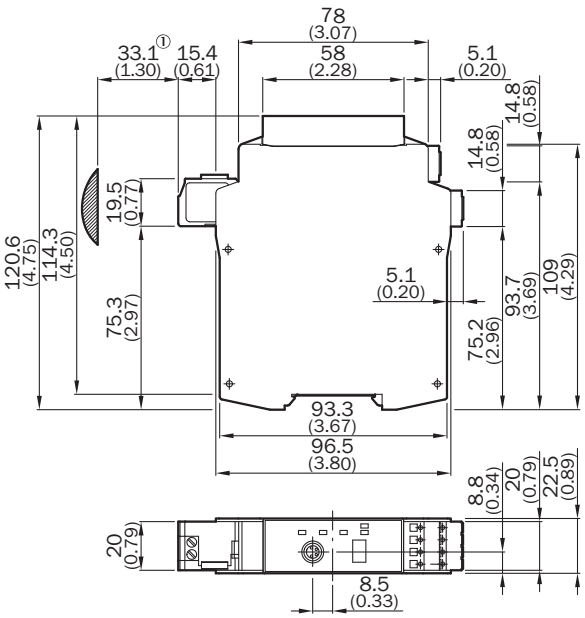
AMBIENT DATA

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

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
CCC certificate	✓
UK-Type-Examination approval	✓
cULus certificate	✓
KC Mark certificate	✓
cTUVus certificate	✓
S Mark certificate	✓
EC-Type-Examination approval	✓
EC-Type-Examination approval (Machinery Regulation)	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING CPU3



Dimensions in mm (inch)
① Approximate connector range

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1059305

SICK AG
WALDKIRCH
GERMANY
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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