SICK.COM



DATA SHEET

FX3-ANA020002

Flexi Soft
Safety controllers

SICK Sensor Intelligence



SAFETY CONTROLLERS

FX3-ANA020002

ORDERING INFORMATION

Type	part no.
FX3-ANA020002	1051134

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

DETAILED TECHNICAL DATA

FEATURES

Module	Analog input module
Configuration method	Via software (Flexi Soft Designer)

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)	0.166×10^{-9}
T_M (mission time)	20 years (EN ISO 13849-1)

FUNCTIONS

Limit value monitoring	✓
Signal range detection	✓

INTERFACES

Number of safe analog inputs	2
Connection type	Plug-in spring terminals

ELECTRONICS

Protection class	III (EN 61140)
Voltage supply	Via FLEXBUS+
Internal power consumption	≤ 2 W [1]
Analogue inputs	
Input voltage	≤ 30 V DC
Input current	≤ 30 mA
Current measuring range	4 mA ... 20 mA
Current input measuring range	3.5 mA ... 20.5 mA [2] [3]
Input resistance	50 Ω

[1] Via FLEXBUS+, without streams at analog inputs.

[2] Threshold below which a sensor fault is assumed. A max. deviation of 1% (full scale value) gives a tolerance range of 3.3 mA to 3.7 mA.

[3] Threshold above which a sensor fault is assumed. A max. deviation of 1% (full scale value) gives a tolerance range of 20.3 mA to 20.7 mA.

MECHANICS

Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.6 mm
Weight	117 g (± 5 %)

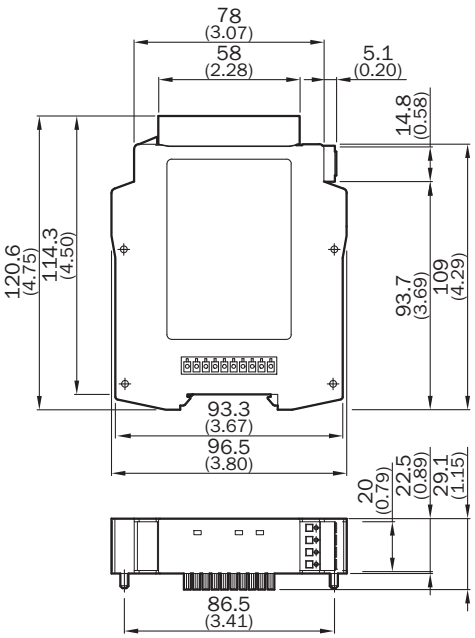
AMBIENT DATA

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	✓
cTUVus certificate	✓
S Mark certificate	✓
EC-Type-Examination approval	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING FX3-ANA0



Dimensions in mm (inch)

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/1051134

SICK AG
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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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