Online data sheet



FX3-ANA020002

Flexi Soft

SAFETY CONTROLLERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
FX3-ANA020002	1051134

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

Detailed technical data

Features

Module	Analog input module
Configuration method	Via software

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

Functions

Safe SICK device communication	EFI
Limit value monitoring	✓
Signal range detection	✓

Interfaces

Number of analog inputs	2
Connection type	Spring terminals

Electrical data

Protection class	III (EN 61140)
Voltage supply	Via FLEXBUS+
Internal power consumption	≤ 2 W [1]

[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.

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.

Mechanical data

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

Ambient data

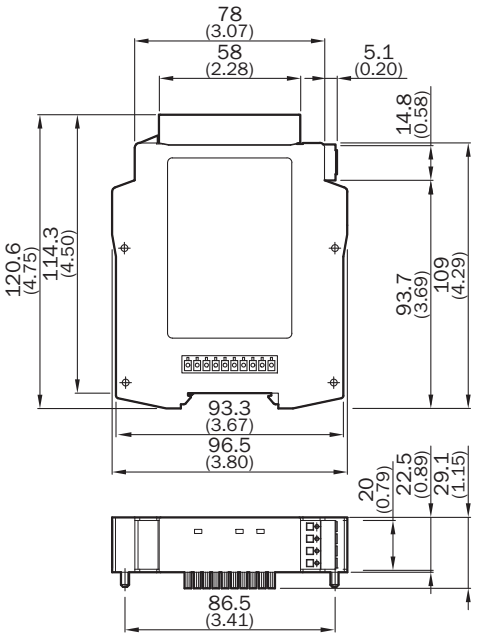
Enclosure rating	IP20 (EN 60529)
Ambient operating temperature	–25 °C ... +55 °C
Storage temperature	–25 °C ... +70 °C
Air humidity	10 % ... 95 %, Non-condensing

Classifications

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

Dimensional drawing (Dimensions in mm (inch))

FX3-ANA0



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.”

WORLDWIDE PRESENCE:

Contacts and other locations www.sick.com

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