Online data sheet



FX3-XTI084002

Flexi Soft / Safe EFI-pro System

SAFETY CONTROLLERS / SAFETY SYSTEMS

SICK
Sensor Intelligence.



Ordering information

I/O modules

Number of safety inputs	Number of test outputs	Number of safe outputs	Type	Part no.
8	2	4	FX3-XTIO84002	1044125

Other models and accessories → www.sick.com/Flexi_Soft___Safe_EFI-pro_System

Detailed technical data

Features

Module	I/O module
Configuration method	Via software (Flexi Soft Designer, Safe EFI-pro System: Safety Designer)

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)	4.8×10^{-9} (EN ISO 13849) [1] 0.9×10^{-9} (EN ISO 13849) [2]
T_M (mission time)	20 years (EN ISO 13849)

[1] For single channel outputs.
[2] For dual channel outputs.

Functions

Flexi Loop-compatible	✓
Fast shut-off	✓
Fast shut-off time	8 ms

Interfaces

Number of safety inputs	8
Number of test outputs	2
Number of safe outputs	4
Connection type	Spring terminals

Electrical data

Protection class	III (EN 61140)
Voltage supply	Via FLEXBUS+
Internal power consumption	≤ 2.2 W [1]
Inputs	
Input voltage HIGH	13 V DC ... 30 V DC
Input voltage LOW	–5 V DC ... 5 V DC
Input current HIGH	2.4 mA ... 3.8 mA
Input current LOW	–2.5 mA ... 2.1 mA
Test outputs	
Voltage supply	Via FLEXBUS+
Type of output	PNP semiconductors, short-circuit protected
Test pulse generator	2
Output voltage HIGH	15 V DC ... 30 V DC
Output current	≤ 120 mA [2]
Outputs	
Voltage supply	Via A1, A2
Supply voltage	24 V DC (16.8 V DC ... 30 V DC)
Type of supply voltage	PELV or SELV [3]
Type of output	PNP semiconductors, short-circuit protected
Output voltage HIGH	16 V DC ... 30 V DC
Output current	≤ 2 A

[1] Via FLEXBUS+, without streams at test outputs.
[2] On each of the two test pulse generators. This makes max. 8 testable safe series connections possible per module, each with max. 30 mA.
[3] The current of the power supply that powers the module must be limited to a maximum of 4 A, either through the power supply itself or a fuse.

Mechanical data

Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.6 mm
Weight	164 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

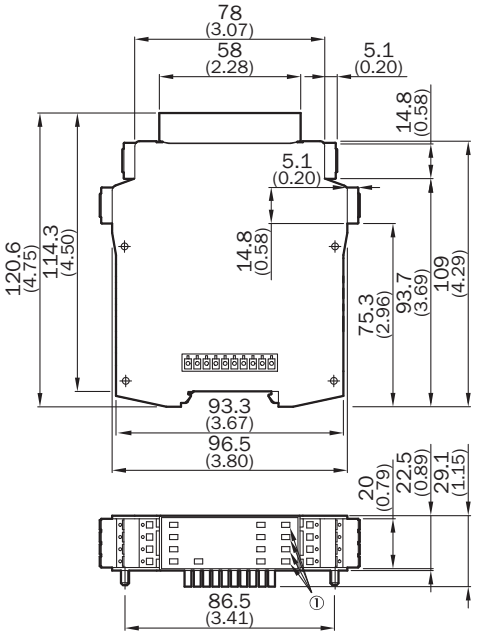
Classifications

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-XTIO, FX3-XTDI



① Only valid for FX3-XTIO

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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.”

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Contacts and other locations –www.sick.com