

FX3-XTDS84002

Safe EFI-pro System

SAFETY SYSTEMS

SICK
Sensor Intelligence.



Ordering information

	Number of safety inputs	Number of test outputs	Number of non-safe outputs	Type	Part no.
I/O modules	8	0-2	4-6	FX3-XTDS84002	1061777

Other models and accessories → www.sick.com/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)	0.4×10^{-9} (EN ISO 13849)
T_M (mission time)	20 years (EN ISO 13849)

Functions

Flexi Loop-compatible	✓
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Interfaces

Number of safety inputs	8
Number of test outputs	0-2
Number of non-safe outputs	4-6 ¹⁾
Connection type	Spring terminals

¹⁾ In addition, both test outputs can be used as additional non-safe outputs.

Electrical data

Protection class	III (EN 61140)
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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.

Voltage supply	Via FLEXBUS+
Internal power consumption	≤ 1.5 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	≤ 500 mA

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	139 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

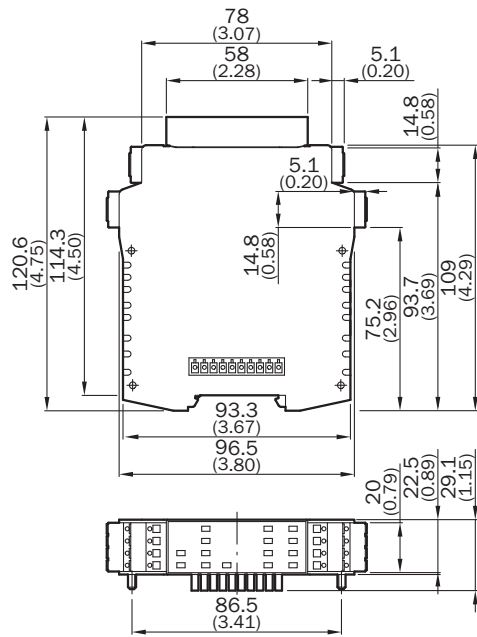
Classifications

ECl@ss 5.0	27243001
ECl@ss 5.1.4	27243101
ECl@ss 6.0	27243101
ECl@ss 6.2	27243101
ECl@ss 7.0	27243101
ECl@ss 8.0	27243101
ECl@ss 8.1	27243101
ECl@ss 9.0	27243101
ECl@ss 10.0	27243101

ECI@ss 11.0	27243101
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	32151705

Dimensional drawing (Dimensions in mm (inch))

FX3-XTDS, FX0-STIO



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.”

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