



FX3-XTDI80002

Flexi Soft

SAFETY CONTROLLERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
FX3-XTDI80002	1044124

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



Detailed technical data

Features

Module	I/O module
Configuration method	Via software

Mechanical data

Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.6 mm
Weight	139 g (± 5 %)

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

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 x 10 ⁻⁹ (EN ISO 13849)

T_M (mission time)	20 years (EN ISO 13849)
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Interfaces

Number of safety inputs	8 (I1 – I8)
Number of test outputs	8 (X1 – X8)
Connection type	Spring terminals

Electrical data

Operating data

Protection class	III (EN 61140)
Voltage supply	
Internal logic	Via FLEXBUS+
Test outputs	Via FLEXBUS+
Internal power consumption	≤ 2 W ¹⁾

¹⁾ Via FLEXBUS+, without streams at test outputs.

Safe inputs

Terminals	I1 – I8
Input voltage	
HIGH	13 V DC ... 30 V DC
LOW	–5 V DC ... 5 V DC
Input current	
HIGH	2.4 mA ... 3.8 mA
LOW	–2.5 mA ... 2.1 mA

Test outputs

Terminals	X1 – X8
Type of output	PNP semiconductors, short-circuit protected
Test pulse generator	2 (X1/X3/X5/X7, X2/X4/X6/X8)
Output voltage HIGH	15 V DC ... 30 V DC
Output current	≤ 120 mA ¹⁾
Test pulse interval	40 ms ... 1,000 ms, configurable
Test pulse width	1 ms ... 100 ms, configurable

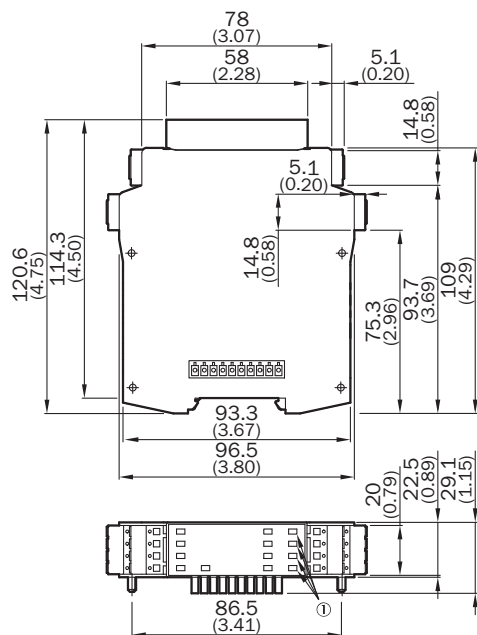
¹⁾ On each of the two test pulse generators. This makes max. 8 testable sensor cascades per module possible with max. 30 mA each.

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
Electromagnetic immunity	EN 61000-6-2
Vibration resistance	1 g, 5 Hz ... 150 Hz (EN 60068-2-6) 3 g RMS, 10 Hz ... 500 Hz (EN 60068-2-64)
Shock resistance	
Continuous shock	15 g, 11 ms (EN 60068-2-27)
Single shock	30 g, 11 ms (EN 60068-2-27)

Dimensional drawing (Dimensions in mm (inch))

FX3-XTIO, FX3-XTDI



① Only valid for FX3-XTIO

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:

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