



FX3-XTDI80002

Flexi Soft

SAFETY CONTROLLERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
FX3-XTDI80002	1044124

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



Detailed technical data

Features

Module	I/O 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)
PFHd (mean probability of a dangerous failure per hour)	0.4×10^{-9} (EN ISO 13849)
T_M (mission time)	20 years (EN ISO 13849)

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	Housing	IP 40 (EN 60529)
	Terminals	IP 20 (EN 60529)
Ambient operating temperature	-25 °C ... +55 °C	
Storage temperature	-25 °C ... +70 °C	
Air humidity	10 % ... 95 %, Non-condensing	
Climate conditions according to	EN 61131-2 (55 °C ambient operating temperature, 95% rel. humidity)	
Electromagnetic compatibility (EMC)	Class A (EN 61000-6-2, EN 55011)	
Vibration resistance	1 g, 5 Hz ... 150 Hz (EN 60068-2-6)	
	3 g RMS, 10 Hz ... 500 Hz (EN 60068-2-64)	

Functions

Flexi Loop-compatible	✓
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Interfaces

Number of safety inputs	8 (I1 – I8)
Number of non-safe inputs	0
Number of test signal outputs	8 (X1 – X8)
Number of safe outputs	0
Number of non-safe outputs	0
Connection type	Spring terminals

Electrical data

Operating data

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

¹⁾ Via FLEXBUS+, without current on test signal 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

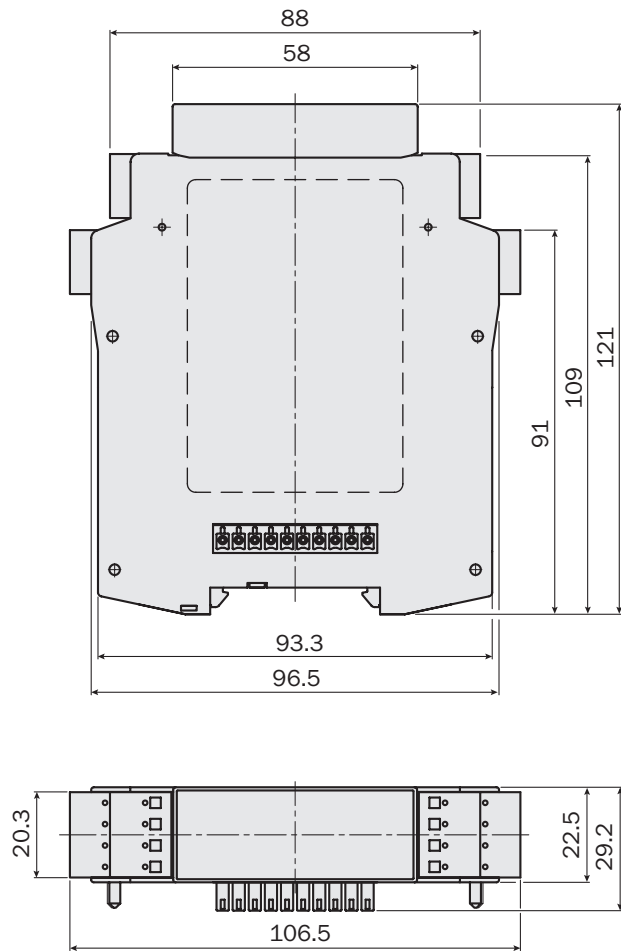
Test signal outputs

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

¹⁾ At each of the two test signal generators. This means that a maximum of 8 testable sensor cascades per module with max. 30 mA each are possible.

Dimensional drawing (Dimensions in mm (inch))

FX3-XTIO, FX3-XTDI, FX3-XTDS, FX0-STIO, UE410-2R04, UE410-4R04



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