



# FLX3-XTDI100

Flexi IO

SAFETY CONTROLLERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
FLX3-XTDI100	1085353

Other models and accessories → [www.sick.com/Flexi\\_IO](http://www.sick.com/Flexi_IO)



### Detailed technical data

#### Features

<b>Module</b>	I/O module
<b>Description</b>	The I/O module is a safe digital input/output expansion module.
<b>Safety inputs</b>	8
<b>Test outputs</b>	8
<b>Security Level</b>	SL-C 1 (IEC 62443-4-2)
<b>Configuration software</b>	Safety Designer
<b>Items supplied</b>	I/O module Front connector with 18 terminals Safety instruction Operating instructions for download

#### Safety-related parameters

<b>Safety integrity level</b>	SIL 3 (IEC 61508)
<b>Category</b>	Category 4 (ISO 13849-1)
<b>Performance level</b>	PL e (ISO 13849-1)
<b>PFH<sub>p</sub> (mean probability of a dangerous failure per hour)</b>	$4 \times 10^{-9}$ <sup>1)</sup>
<b>T<sub>M</sub> (mission time)</b>	20 years (ISO 13849-1)

<sup>1)</sup> Calculated value when using dual-channel safety inputs and safety outputs with test pulse. Maximum  $9 \times 10^{-9}$  with single-channel safety inputs and safety outputs without test pulse. For details, see the operating instructions.

#### Functions

<b>Monitoring of the connected safety devices</b>	✓
<b>Testing of the connected safety devices and the wiring (short-circuit detection)</b>	✓
<b>Use of the test outputs as non-safe outputs</b>	✓
<b>Safe series connection with Flexi Loop</b>	✓

## Interfaces

<b>Front connector</b>	1 front connector with 18 terminals
<b>Safety inputs</b>	8
<b>Test outputs</b>	8
<b>Display elements</b>	LEDs

## Electronics

<b>Protection class</b>	III (EN 61140)
<b>Interference resistance</b>	EN 61000-6-2
<b>Interference emission</b>	EN 61000-6-4
<b>Voltage supply</b>	The voltage supply of the extension modules is maintained via the backplane bus
<b>Power consumption at nominal voltage (without outputs)</b>	2.4 W (DC)
<b>Power loss</b>	≤ 3.3 W

## Mechanics

<b>Dimensions (W x H x D)</b>	14 mm x 124.7 mm x 85.5 mm
<b>Contamination rating</b>	2 (IEC 61010-1)
<b>Control device type</b>	Open device (IEC 61010-2-201)
<b>Weight</b>	104 g (± 5 %)
<b>Mounting</b>	Mounting on a 35 mm × 7.5 mm mounting rail in accordance with IEC 60715

## Ambient data

<b>Enclosure rating</b>	IP20 (EN 60529)
<b>Ambient operating temperature</b>	-25 °C ... +55 °C <sup>1)</sup>
<b>Storage temperature</b>	-25 °C ... +70 °C
<b>Air humidity</b>	≤ 95 %, Non-condensing
<b>Vibration resistance</b>	1 g, 5 Hz ... 200 Hz (EN 60068-2-6)
<b>Shock resistance</b>	15 g, 11 ms (EN 60068-2-27)

<sup>1)</sup> At altitudes up to 2,000 m above sea level For higher areas of application up to max. 4,000 m above sea level, see the operating instructions.

## Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>UK-Type-Examination approval</b>	✓
<b>cULus certificate</b>	✓
<b>cTUVus certificate</b>	✓
<b>S Mark certificate</b>	✓
<b>EC-Type-Examination approval</b>	✓
<b>EC-Type-Examination approval (Machinery Directive)</b>	✓
<b>EC-Type-Examination approval (Machinery Regulation)</b>	✓

<b>Third party certificate</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓
<b>Cybersecurity certificate</b>	✓

### Classifications

<b>ECLASS 5.0</b>	27243001
<b>ECLASS 5.1.4</b>	27243101
<b>ECLASS 6.0</b>	27243101
<b>ECLASS 6.2</b>	27243101
<b>ECLASS 7.0</b>	27243101
<b>ECLASS 8.0</b>	27243101
<b>ECLASS 8.1</b>	27243101
<b>ECLASS 9.0</b>	27243101
<b>ECLASS 10.0</b>	27243101
<b>ECLASS 11.0</b>	27243101
<b>ECLASS 12.0</b>	27243101
<b>ETIM 5.0</b>	EC001449
<b>ETIM 6.0</b>	EC001449
<b>ETIM 7.0</b>	EC001449
<b>ETIM 8.0</b>	EC001449
<b>UNSPSC 16.0901</b>	32151705

## 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](http://www.sick.com)