





SYS/SGD-W4104020101FX3

Safeguard Detector

SAFETY SYSTEMS FOR AUTOMATING MATERIAL FLOWS







Ordering information

Туре	part no.
SYS/SGD-W4104020101FX3	1129622

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

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Detailed technical data

Licenses

Description	Software for the Safeguard Detector safety system based on the Flexi Soft safety control device. The software for the Safeguard Detector safety system consists of safe logic for the Flexi Soft safety controller and contains ready-made safety functions for detecting a movable guard in order to reliably prevent access to the hazardous point.
Product type	Software
License type	Single license
Scope of use	It is a single license. Each license can only be assigned to one device or one workstation.
Fee-based	Yes
License period	The usage rights granted above are perpetual.

Features

Safety task	Natural protection due to the material
Product scope	System
Safeguard Detector variant	Flexi Soft variant
Detection zone	30 mm 100 mm ¹⁾
Safety-related parameters	
Category	Category 3 (EN ISO 13849-1)
Performance level	PL d (EN ISO 13849-1)
Performance class SRS/SRSS	D (IEC TS 62998-1)
PFH_D (mean probability of a dangerous failure $$per$$ hour)	1.0 * 10 ⁻⁷
Items supplied	1 × CPU0 main module 1 × system plug for CPU0 1 × XTI0 expansion module (8 inputs, 4 outputs) 2 × WTB4F MultiPulse sensor 100 mm Software license

 $^{^{1)}}$ If no movable physical guard is identified in the detection zone, the safety controller prompts the machine to enter the safe state.

Flexi Soft safety controller

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Note	The Flexi Soft station has a modular design and can be customized based on the operator's requirements. At least one main module, the right system plug, and at least one I/O module must be used.
Flexi Soft station construction	Modular 1 main module 1 system plug 0 2 gateways

	1 12 expansion modules
Module interconnection	Internal bus (FLEXBUS+)
Configuration method	Via software
Configuration software	Flexi Soft Designer
Software	You can find the software in the Flexi Soft Designer.
Number of connectable sensor pairs	Approx. 12 (depending on logic/number of logic modules used)
Connection type	Spring terminals
Pulse rate of the sensors	10 Hz
Max. safety controller cycle time	≤ 28 ms
Supply voltage V _S	24 V DC (16.8 V 30 V)
Protection class	III (EN 50178)
Enclosure rating	IP20 (EN 60529)
Ambient operating temperature	-25 °C 55 °C
Type of fieldbus integration	Via gateway
Fieldbus, industrial network	CANopen, EtherCAT [®] , EtherNet/IP™, Modbus TCP, PROFIBUS DP, PROFINET, DeviceNet™

MultiPulse photoelectric proximity sensor

Number of sensors	2 pieces
Detection zone	30 mm 100 mm ¹⁾
Remission	6 % 90 %
Pulse frequency	10 Hz
Response time	≤ 100 ms
Type of light	Visible red light
Wave length	650 nm
Light spot size (distance)	Ø 7 mm (50 mm)
Connection type	Connector M8, 3-pin
Voltage supply	Via safety controller
Enclosure rating	IP67 (EN 60529)
Ambient operating temperature	-40 °C +60 °C

¹⁾ If no movable physical guard is identified in the detection zone, the safety controller prompts the machine to enter the safe state.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓
UK-Type-Examination approval	✓
TÜV approval	✓
TÜV approval annex	✓
EC-Type-Examination approval	✓

Classifications

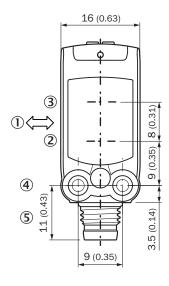
ECLASS 5.0	27279090
ECLASS 5.1.4	27279090

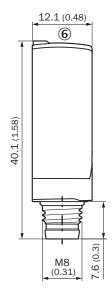
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ECLASS 6.0	27279090
ECLASS 6.2	27279090
ECLASS 7.0	27279090
ECLASS 8.0	27279090
ECLASS 8.1	27279090
ECLASS 9.0	27279090
ECLASS 10.0	27279090
ECLASS 11.0	27279090
ECLASS 12.0	27279090
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	32151705

Dimensional drawing

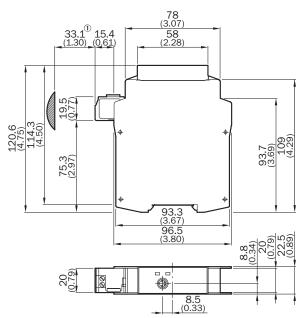




Dimensions in mm (inch)

- ① Standard direction of the material being detected
- ② Center of optical axis, sender
- 3 Center of optical axis, receiver
- 4 M3 mounting hole
- ⑤ Connection
- **(6)** display and adjustment elements

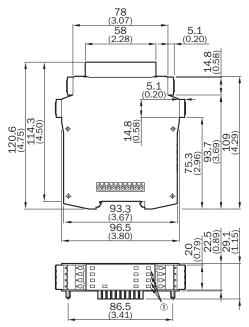
Dimensional drawing FX3-CPU0



Dimensions in mm (inch)

① Approximate connector range

Dimensional drawing FX3-XTIO, FX3-XTDI



Dimensions in mm (inch)

① Only valid for FX3-XTIO

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For us, that is "Sensor Intelligence."

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