

SAPPO2D-06AP001 Safeguard Detector

SAFETY SYSTEMS FOR AUTOMATING MATERIAL FLOWS



SAPP02D-06AP001 | Safeguard Detector

SAFETY SYSTEMS FOR AUTOMATING MATERIAL FLOWS



Ordering information

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Туре	Part no.
SAPP02D-06AP001	1065548

Included in delivery: SAPP02D-06A0001 (1), SYS/SGD-W4104020101FX3 (1), FX3-MPL000001 (1), FX3-CPU000000 (1), FX3-XTI084002 (1)

Other models and accessories -> www.sick.com/Safeguard_Detector



Detailed technical data

Safety-related parameters of the safety system

Category	Category 3 (EN ISO 13849-1)
Performance level	PL d (EN ISO 13849-1)
$\mbox{PFH}_{\mbox{D}}$ (mean probability of a dangerous failure per hour)	1.8×10^{-7}
DC _{avg} (diagnostic coverage)	91 % (EN ISO 13849-1)
$\ensuremath{MTTF}_{\ensuremath{D}}$ (mean time to dangerous failure)	63 years (EN ISO 13849-1)

Flexi Soft safety controller

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
Example program	You can find an example application with the Safeguard Detector function block in the down-load area.
Number of connectable sensor pairs	Approx. 30 (depending on logic/number of logic modules used)
Connection type	Spring terminals
Pulse rate of the sensors	10 Hz
Max. safety controller cycle time	
Pulse rate 10 Hz	≤ 28 ms
Pulse rate 2 Hz	≤ 148 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
Fieldbus, industrial network	CANopen, EtherCAT [®] , EtherNet/IP™, Modbus TCP, PROFIBUS DP, PROFINET, DeviceNet™

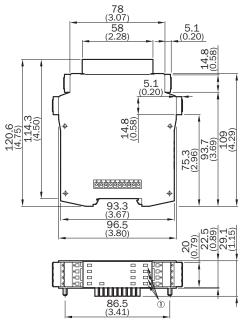
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Type of fieldbus integration	Via gateway
Classifications	
eCl@ss 5.0	27279090
eCl@ss 5.1.4	27279090
eCl@ss 6.0	27279090
eCl@ss 6.2	27279090
eCl@ss 7.0	27279090
eCl@ss 8.0	27279090
eCl@ss 8.1	27279090
eCl@ss 9.0	27279090
eCl@ss 10.0	27279090
eCl@ss 11.0	27279090
eCl@ss 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))

FX3-XTIO, FX3-XTDI

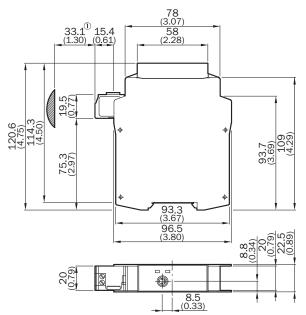


① Only valid for FX3-XTIO

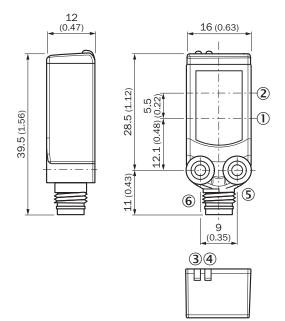
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FX3-CPU0



① Approximate connector range



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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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