SYS/BOT-URE00020102NS3

Safe Robotics Area Protection

SAFETY SYSTEMS FOR ROBOTS

SICK

Sensor Intelligence.

SYS/BOT-URE00020102NS3 | Safe Robotics Area Protection

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Ordering information

Type	part no.
SYS/BOT-URE00020102NS3	1110696

Included in delivery: FX3-CPU000000 (1), FX3-MPL000001 (1), FX3-XTIO84002 (2), NANSX-AAACAEZZ1 (1), NANS3-CAAZ30AN1 (1)

Other models and accessories ➜ www.sick.com/Safe_Robotics_Area_Protection

Detailed technical data

Features

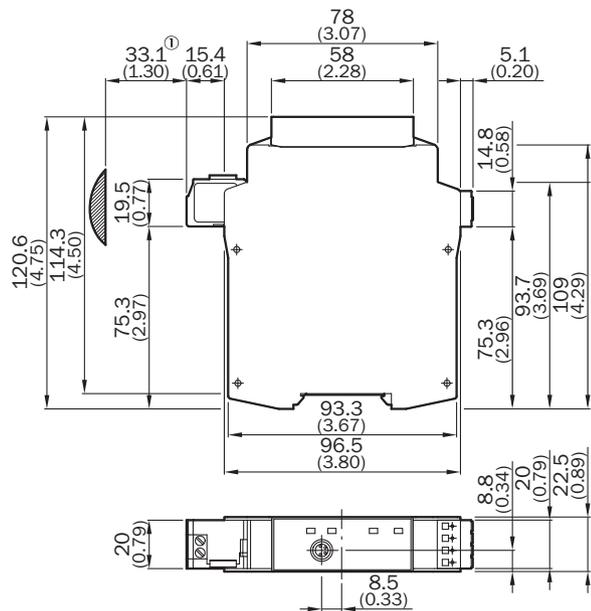|	
Variant	sBot Speed – URe
Product type	Hardware
Robot controller	Universal Robots: e-Series + UR Series robots
Stopping process of the robot	With speed reduction
Robot restart	Automatic or manual
Interfaces	
Communication interface	Discrete I/Os
Safe state in the event of a fault	The safety outputs via the network are logic 0.
Safety laser scanners	2 x nanoScan3 Pro I/O
Protective field range	3 m
Safety task	Hazardous area protection
Ambient operating temperature	–10 °C ... +50 °C
Storage temperature	–20 °C ... +50 °C
Air humidity	90% at 50 °C (EN 61131-2)
Safety controller included	Flexi Soft
Safety controller type	Programmable
Voltage supply	
Supply voltage V_S	24 V DC (16.8 V DC ... 28.8 V DC)
Performance level	PL d (ISO 13849-1)
Items supplied	2 x nanoScan3 Pro I/O safety laser scanners Flexi Soft main module FX3-CPU0 FX3-MPL0 Flexi Soft system plug 2 x FX3-XTIO Flexi Soft I/O module 2 x nanoScan3 Pro I/O Ethernet system plugs

Functions

Emergency stop	
Shut down in the event of an emergency situation	✔
Prevent unexpected restarting after an emergency stop	✔
Initiate a safety stop	

Automated reset and restart with safe sequence monitoring	✓
Optional manual reset	✓
Safety-rated monitored speed	
Trigger safety-rated monitored speed	✓
Operating mode	
Operating mode selection (implemented in robot control)	✓
Enabling device - manual operating mode (implemented in robot control)	✓

Classifications

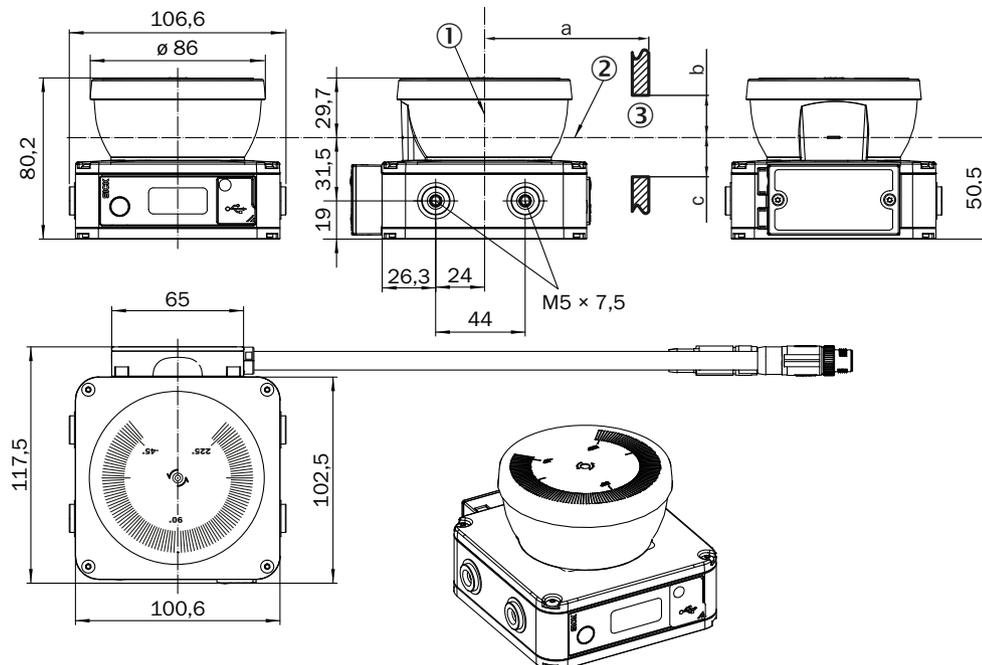|	
ECLASS 5.0	27279090
ECLASS 5.1.4	27279090
ECLASS 6.0	27279090
ECLASS 6.2	27279090
ECLASS 7.0	27279090
ECLASS 8.0	27279090
ECLASS 8.1	27279090
ECLASS 9.0	27279090
ECLASS 10.0	27279090
ECLASS 11.0	27279090
ECLASS 12.0	27279090
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	32151705

Dimensional drawing FX3-CPU1, FX3-CPU2

Dimensions in mm (inch)
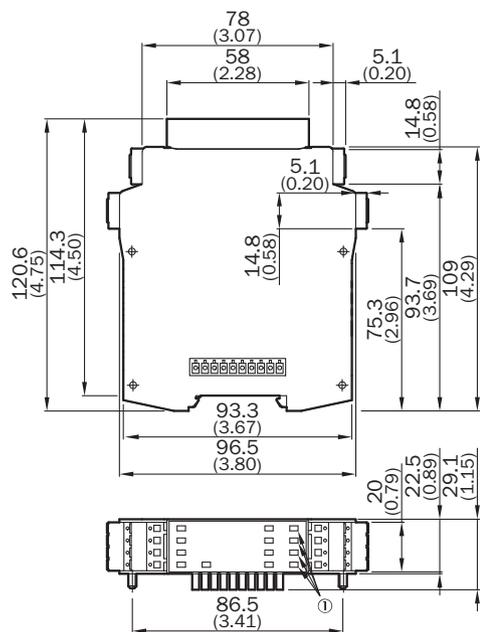① Approximate connector range

Dimensional drawing

Dimensions in mm (inch)
① mirror axis of rotation
② scan plane
③ required viewing slit (a: length of the viewing slit, b: minimum height above the scan plane, c: minimum height below the scan plane. See the operating instructions for details.)

Dimensional drawing FX3-XTIO, FX3-XTDI

Dimensions in mm (inch)
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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