



# SYS/BOT-URSP4ESUA02NS3

Safe Robotics Area Protection

**SAFETY SYSTEMS FOR ROBOTS**

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
SYS/BOT-URSP4ESUA02NS3	1137605

Other models and accessories → [www.sick.com/Safe\\_Robotics\\_Area\\_Protection](http://www.sick.com/Safe_Robotics_Area_Protection)

### Detailed technical data

#### Features

<b>Variant</b>	sBot Speed2 – URCap
<b>Description</b>	sBot Speed2 - URCap is a safety system for UR robots that makes it easy to protect your freely accessible robot application. The system reduces downtimes thanks to the reduction in speed of the robot according to the specific position of the worker, and the option of automatic restart. Thanks to the two nanoScan3 safety laser scanners, approaching persons are detected over a 360-degree range. Using the nanoScan3 Tool - URCap, the safety laser scanner can be configured quickly and easily directly via the teach pendant of the robot.
<b>Product type</b>	System (hardware and software)
<b>Robot controller</b>	Universal Robots: UR3e, UR5e, UR10e, UR16e, UR20 und UR30
<b>Compatible robot software</b>	Polyscope 5
<b>Stopping process of the robot</b>	With speed reduction
<b>Robot restart</b>	Automatic
<b>Interfaces</b>	
Communication interface	Discrete I/Os
Configuration interface	Ethernet
<b>Safe state in the event of a fault</b>	The safety-related semiconductor outputs are in the OFF state.
<b>Safety laser scanners</b>	nanoScan3 Pro I/O
Protective field range	3 m
<b>Safety task</b>	Hazardous area protection
<b>Ambient operating temperature</b>	–10 °C ... +50 °C
<b>Storage temperature</b>	–25 °C ... +70 °C
<b>Air humidity</b>	0% ... 95%, non-condensing
<b>Voltage supply</b>	
Supply voltage $V_S$	24 V DC (19.2 V DC ... 30 V DC)
<b>Performance level</b>	PL d (ISO 13849-1)
<b>Items supplied</b>	2 x nanoScan3 Pro I/O safety laser scanners 2 x system plug 2 x mounting kit (with protection for optics cover) 2 x Ethernet cable, 5 m 2 x M12 connecting cable, 10 m, flying leads 1 x main module for Flexi Classic safety controller 1 x Flexi Classic extension module nanoScan3 Tool – URCap (configuration software) Operating instructions Quickstart guide Circuit diagram(macro for ePlan and PDF) SISTEMA file

## Functions

<b>Initiate a safety stop</b>	
Automated reset	✓
<b>Safety-rated monitored speed</b>	
Trigger safety-rated monitored speed	✓
<b>Operating mode</b>	
Operating mode selection (implemented in robot control)	✓
Enabling device - manual operating mode (implemented in robot control)	✓

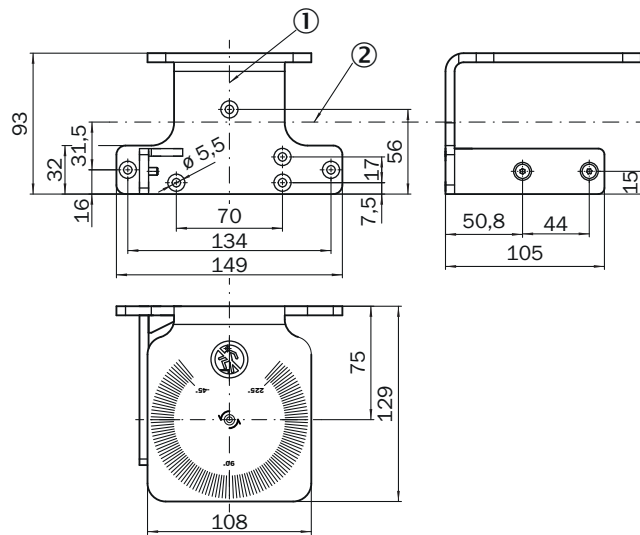
## Certificates

<b>China RoHS</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

## Classifications

<b>ECLASS 5.0</b>	27279090
<b>ECLASS 5.1.4</b>	27279090
<b>ECLASS 6.0</b>	27279090
<b>ECLASS 6.2</b>	27279090
<b>ECLASS 7.0</b>	27279090
<b>ECLASS 8.0</b>	27279090
<b>ECLASS 8.1</b>	27279090
<b>ECLASS 9.0</b>	27279090
<b>ECLASS 10.0</b>	27279090
<b>ECLASS 11.0</b>	27279090
<b>ECLASS 12.0</b>	27279090
<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

### Dimensional drawing

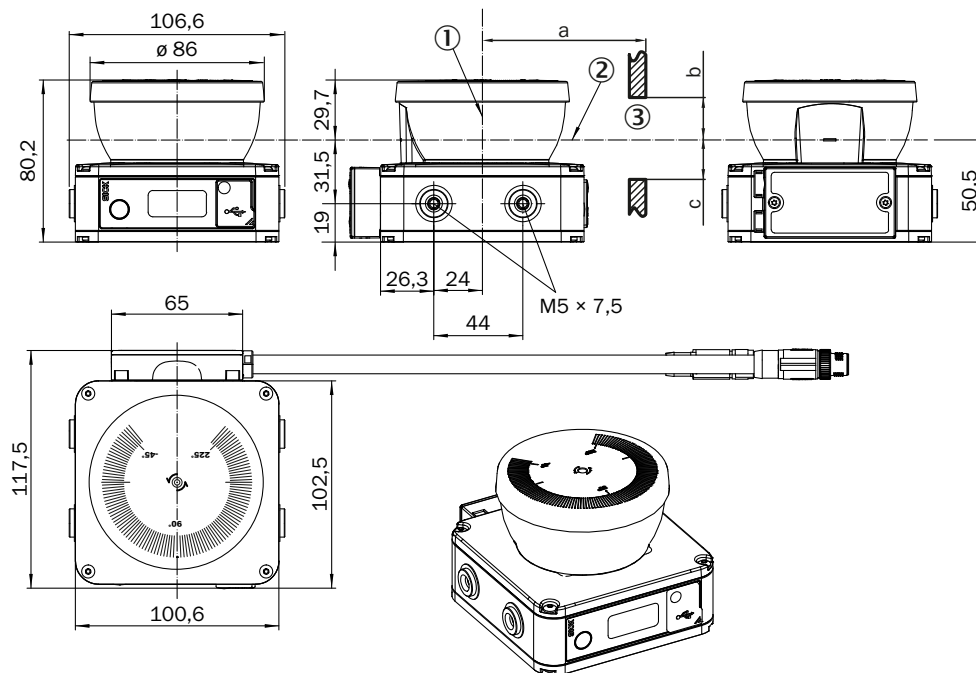


Dimensions in mm (inch)

① mirror axis of rotation

② scan plane

### Dimensional drawing



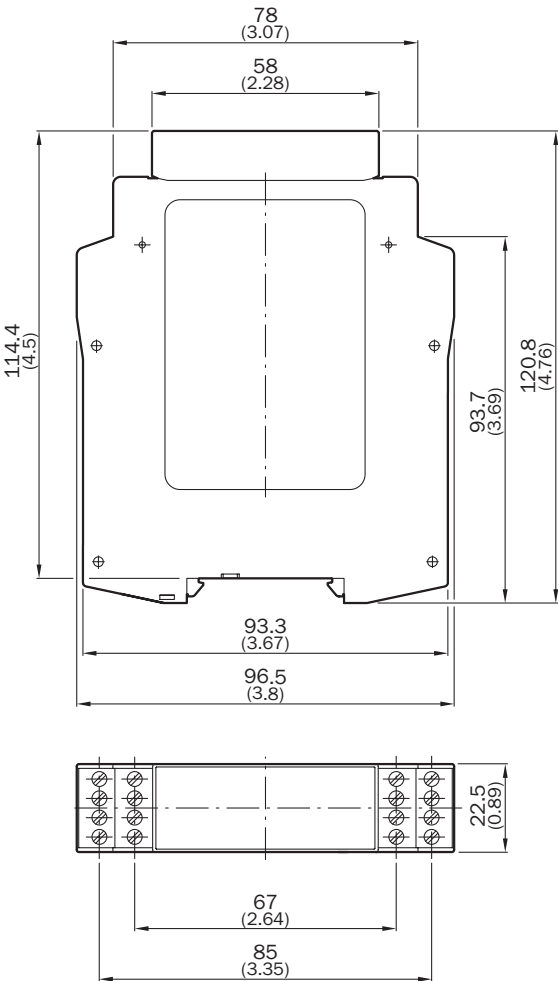
Dimensions in mm (inch)

① mirror axis of rotation

② scan plane

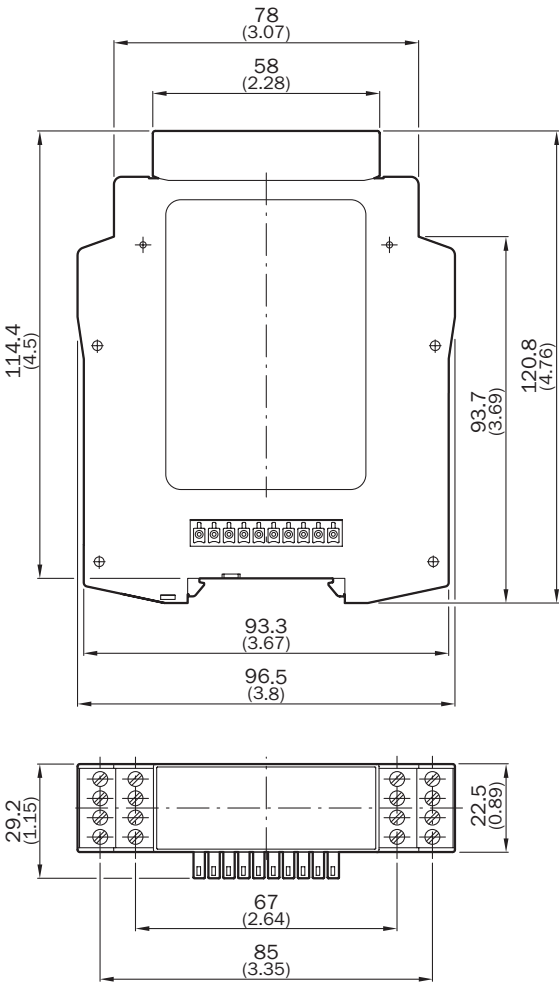
③ required viewing slit (a: length of the viewing slit, b: minimum height above the scan plane, c: minimum height below the scan plane. See the operating instructions for details.)

Dimensional drawing Flexi Classic main module



Dimensions in mm (inch)

Dimensional drawing



Dimensions in mm (inch)

## 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)