sBot – URCap
Safety systems

SYS/BOT-URSP4ESUA01NS3

Safe Robotics Area Protection

SAFETY SYSTEMS FOR ROBOTS

SICK
Sensor Intelligence.

Ordering information

sBot Speed

Robot restart	Safety laser scanner included	Protective field range	Product type	Type	Part no.
Automatic	nanoScan3 Pro I/O	3 m	System (hardware and software)	SYS/BOT-URSP4ESUA01NS3	1111885

A safety system consists of optimized hardware, tested functional logic (software) and detailed documentation for easy integration in compliance with relevant standards.

With purchase, you accept the product description available under Downloads > Documentation in connection with the General Terms and Conditions for the Supply of Software Products (AVB Software SICK).

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

Detailed technical data

Features

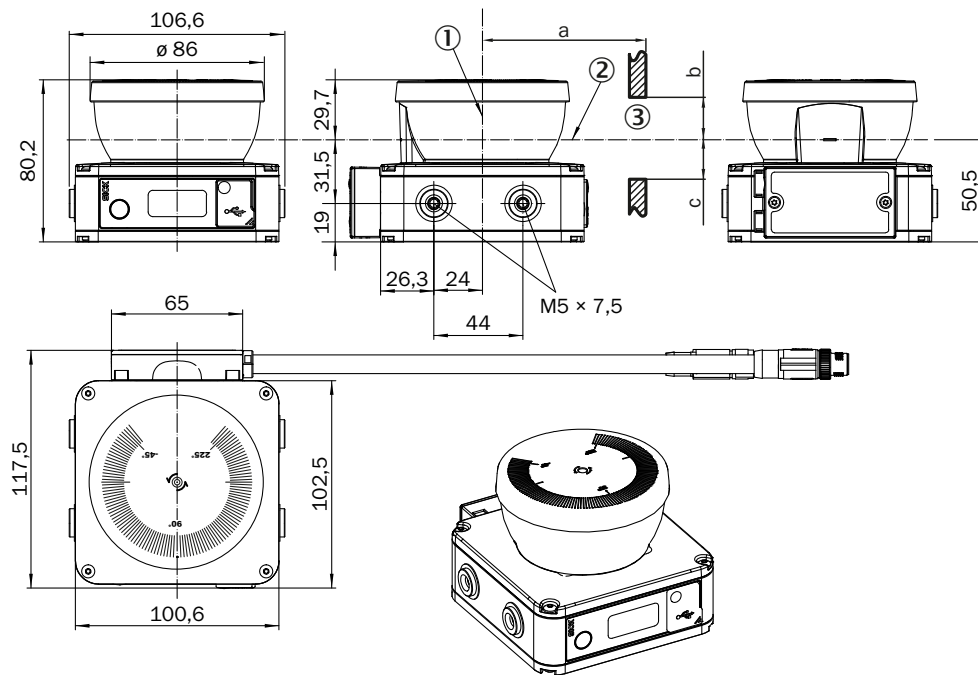|	
Variant	sBot Speed – URCap
Product type	System (hardware and software)
Robot controller	Universal Robots: UR3e, UR5e, UR10e, UR16e
Stopping process of the robot	With speed reduction
Robot restart	Automatic
Interfaces	
Communication interface	Discrete I/Os
Configuration interface	Ethernet
Safe state in the event of a fault	The safety-related semiconductor outputs are in the OFF state.
Safety laser scanners	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)
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	Hardware: nanoScan3 Pro I/O safety laser scanner, mounting kit, system plug and connecting cable. Configuration tool software: nanoScan3 Tool – URCap and operating instructions for the sBot Speed – URCap safety system, Quick Start Guide, connection diagram and SISTEMA file. Not included with delivery: Ethernet extension cable must be selected separately.

Functions

Initiate a safety stop	
Automated 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 (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.)

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**

SICK

Sensor Intelligence.