SICK.COM

DATA SHEET

SYS/BOT-URST4ESUA02NS3

Safe Robotics Area Protection
Safety systems for robots

SICK Sensor Intelligence

SAFETY SYSTEMS FOR ROBOTS

SYS/BOT-URST4ESUA02NS3

ORDERING INFORMATION

Type	part no.
SYS/BOT-URST4ESUA02NS3	1137604

Further device versions and accessories at www.sick.com/Safe_Robotics_Area_Protection

DETAILED TECHNICAL DATA

FEATURES

Variant	sBot Stop2 – URCap
Description	sBot Stop2 - URCap is a safety system for UR robots that makes it easy to protect your freely accessible robot application. The system ensures a safe stop with automatic restart of the robot. 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.
Product type	System (hardware and software)
Robot controller	Universal Robots: e-Series + UR Series robots
Compatible robot software	Polyscope 5
Stopping process of the robot	Stop only
Robot restart	Automatic
Interfaces	
Communication interface	Discrete I/Os, Ethernet
Safe state in the event of a fault	The safety-related semiconductor outputs are in the OFF state.
Safety laser scanners	nanoScan3 Core I/O
Protective field range	3 m
Safety task	Hazardous area protection
Ambient operating temperature	–10 °C ... +50 °C
Storage temperature	–25 °C ... +70 °C
Air humidity	0% ... 95%, non-condensing
Voltage supply	
Supply voltage V_S	24 V (19.2 V ... 30 V)
Performance level	PL d (ISO 13849-1)
Items supplied	2 x nanoScan3 Core I/O safety laser scanner 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 nanoScan3 Tool – URCap (configuration software) Operating instructions Quickstart guide Circuit diagram(macro for ePlan and PDF) SISTEMA file

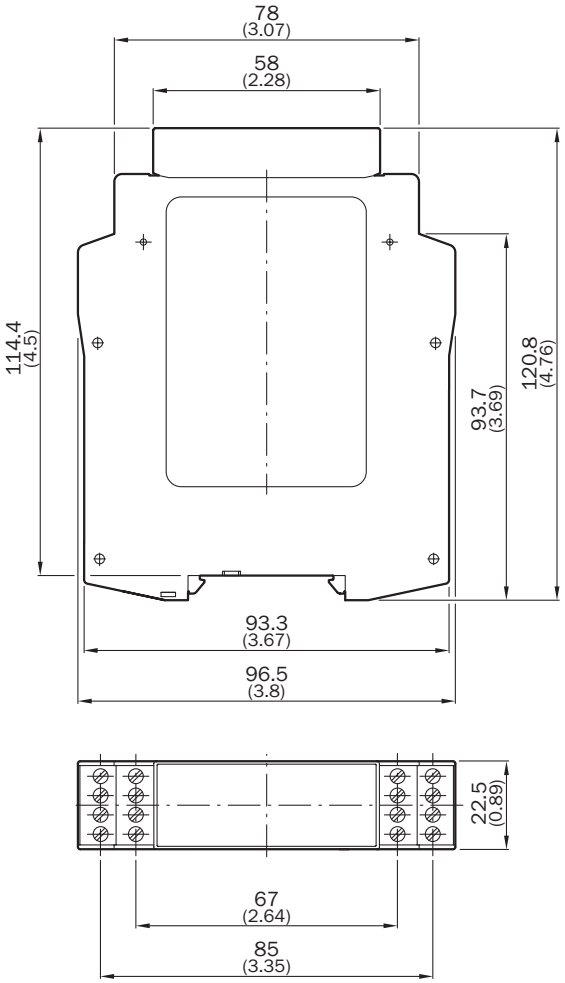
FUNCTIONS

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)	✓

CERTIFICATES

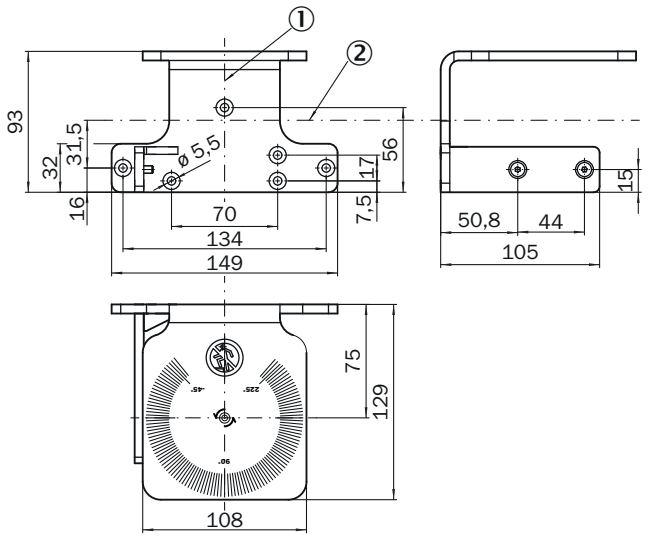
China RoHS	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING FLEXI CLASSIC MAIN MODULE



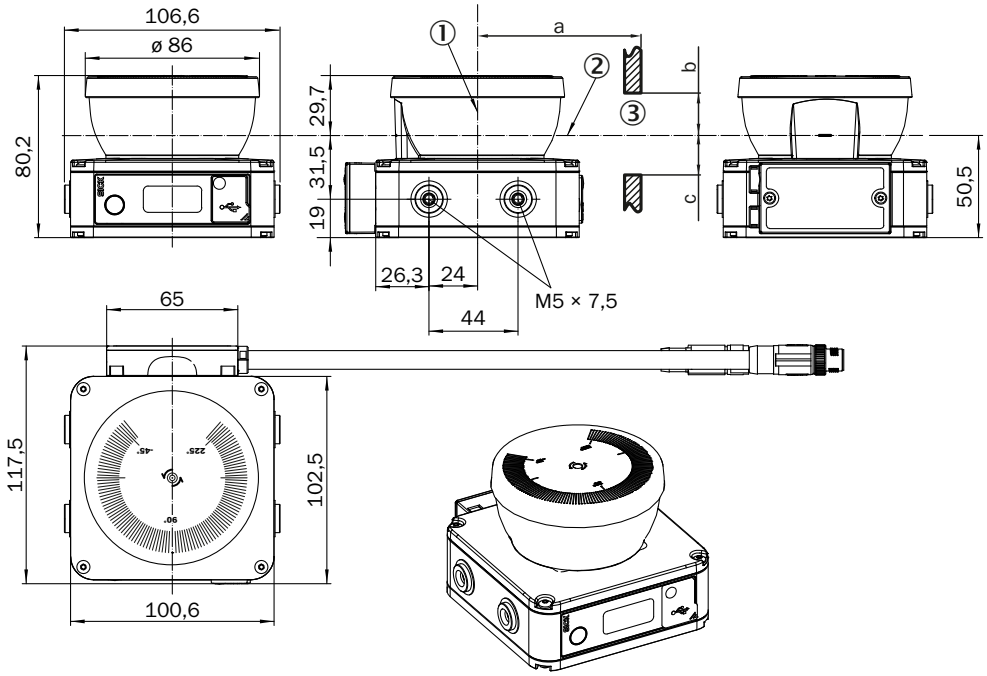
Dimensions in mm (inch)

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.)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1137604

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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