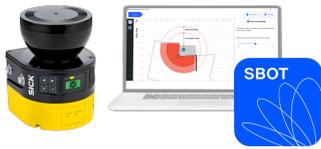


# SYS/BOT-ABPN4PCWI01MS3

Safe Robotics Area Protection

SAFETY SYSTEMS FOR ROBOTS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
SYS/BOT-ABPN4PCWI01MS3	1141109

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 Speed PROFINET - ABB
<b>Description</b>	sBot Speed PROFINET – ABB is a safety system for ABB robots (GoFaTM and SWIFTITM) that makes it easy to protect your freely accessible robot application in a PROFINET infrastructure. The system ensures a safe stop with automatic restart of the robot. The microScan3 Core - PROFINET safety laser scanner is used to detect an approaching person. The microScan3 Configuration Tool (software) can be used to quickly and easily configure the safety laser scanner.
<b>Product type</b>	System (hardware and software)
<b>Robot controller</b>	ABB: SWIFTI CRB 1100, SWIFTI CRB 1300, GoFa CRB 15000
<b>Compatible robot software</b>	RobotWare (Omnicores) 7.10
<b>Stopping process of the robot</b>	With speed reduction
<b>Robot restart</b>	Automatic
<b>Interfaces</b>	
Communication interface	PROFINET PROFIsafe
Configuration interface	Ethernet
<b>Safe state in the event of a fault</b>	The safety outputs via the network are logic 0.
<b>Safety laser scanners</b>	microScan3 Core - PROFINET
Protective field range	4 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 (16.8 V DC ... 30 V DC)
<b>Performance level</b>	PL d (ISO 13849-1)
<b>Items supplied</b>	1 x microScan3 Core – PROFINET safety laser scanners (4 m) 1 x power cable, 5 m 1 x mounting kit 1a 1 x Ethernet cable, 5 m 1 x configuration cable, 3 m microScan3 Configuration Tool (software) Operating instructions
<b>Additional options required by ABB</b>	
Collaborative Speed Control add-in	Option Collaborative speed control [3143-1]
microScan3 connected directly to the controller as a guest	PROFI- safe Controller [3023-1] PROFI- NET Controller [3020-1]

microScan3 and robot controller are guests of an external PLC	PROFI- safe Device [3023-2]
	PROFI- NET Device [3020-1]

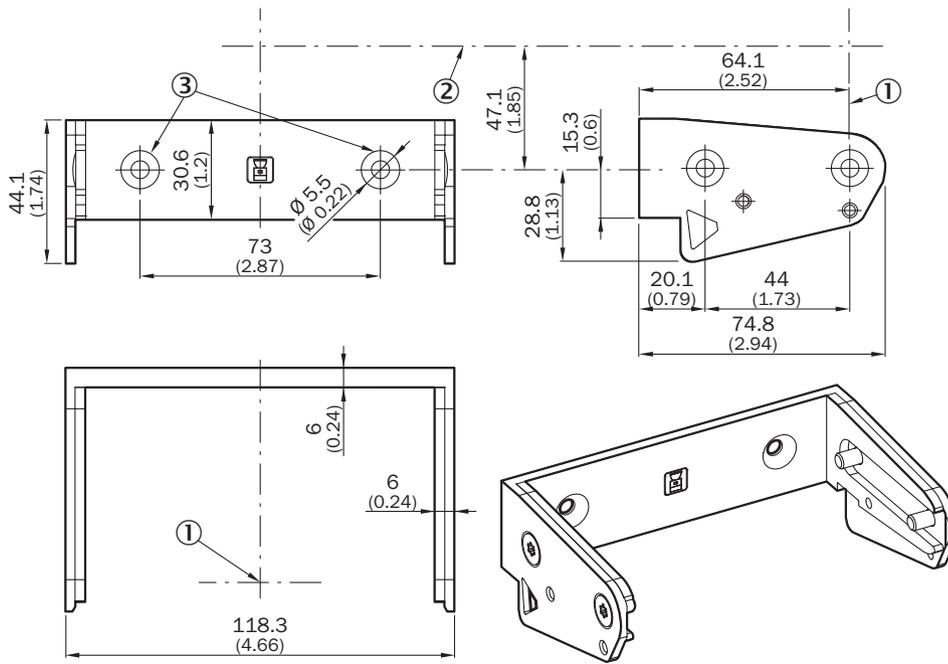
**Classifications**

<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

**Certificates**

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

### Dimensional drawing



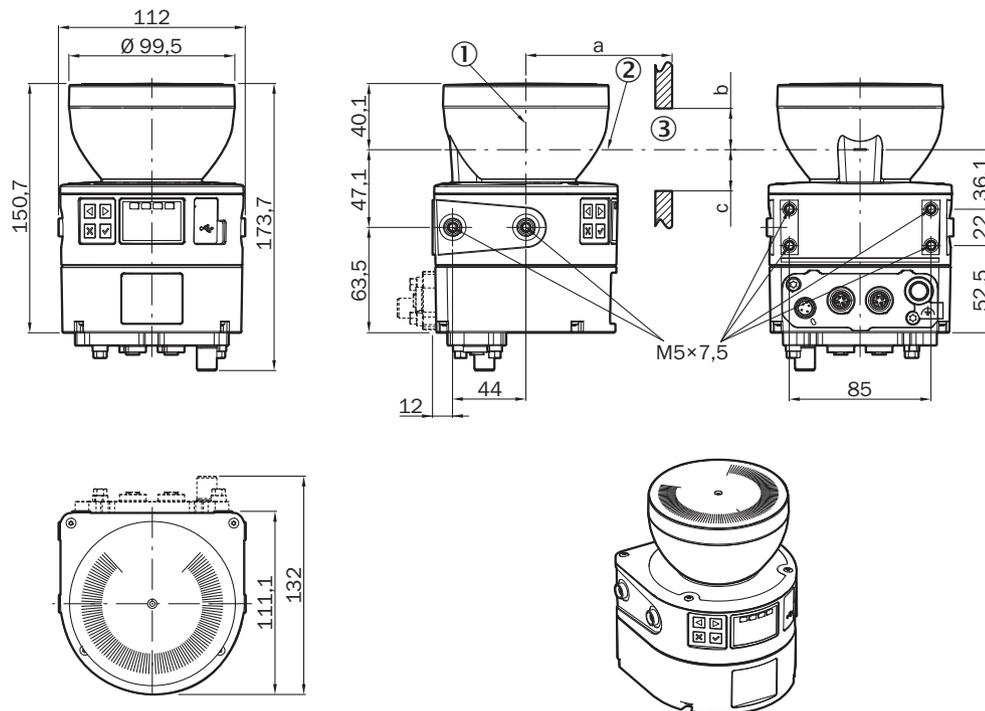
Dimensions in mm (inch)

① mirror axis of rotation

② scan plane

③ countersink for M5 countersunk screw

### 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](http://www.sick.com)