



SYS/BOT-ABPN4PCWI02MS3

Safe Robotics Area Protection

SAFETY SYSTEMS FOR ROBOTS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
SYS/BOT-ABPN4PCWI02MS3	1141110

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

Detailed technical data

Features

Variant	sBot Speed2 PROFINET - ABB
Description	sBot Speed2 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. Thanks to the two microScan3 Core - PROFINET safety laser scanners, approaching persons are detected over a 360-degree range. The microScan3 Configuration Tool (software) can be used to quickly and easily configure the safety laser scanners.
Product type	System (hardware and software)
Robot controller	ABB: SWIFTI CRB 1100, SWIFTI CRB 1300, GoFa CRB 15000
Compatible robot software	RobotWare (Omnicores) 7.10
Stopping process of the robot	With speed reduction
Robot restart	Automatic
Interfaces	
Communication interface	PROFINET PROFIsafe
Configuration interface	Ethernet
Safe state in the event of a fault	The safety outputs via the network are logic 0.
Safety laser scanners	microScan3 Core - PROFINET
Protective field range	4 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 DC (16.8 V DC ... 30 V DC)
Performance level	PL d (ISO 13849-1)
Items supplied	2 x microScan3 Core – PROFINET safety laser scanners (4 m) 2 x power cable, 5 m 2 x mounting kit 1a 1 x Ethernet cable, 5 m 1 x configuration cable, 3 m microScan3 Configuration Tool (software) Operating instructions
Additional options required by ABB	
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]

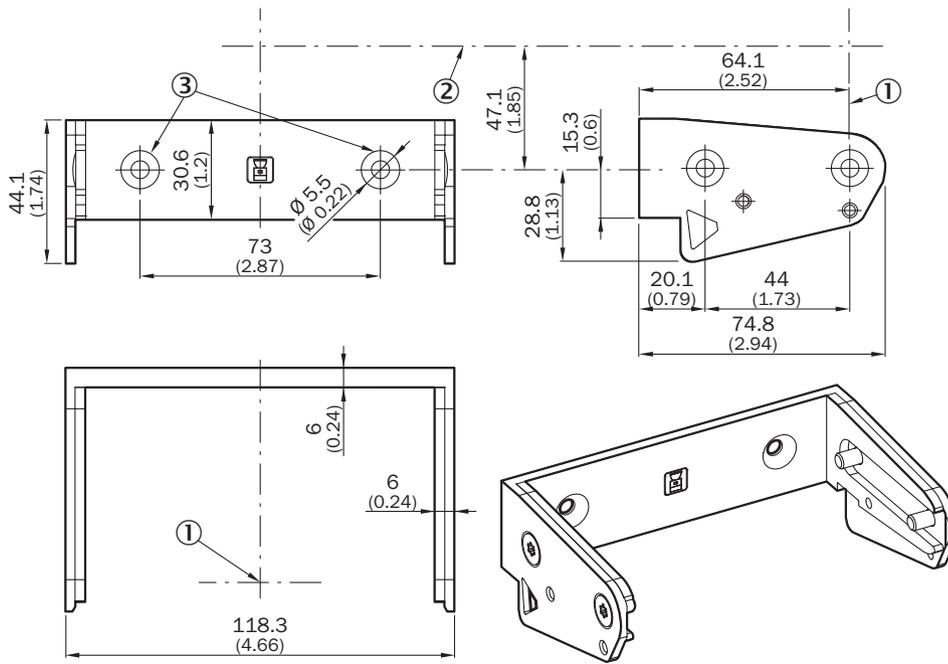
Classifications

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

Certificates

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

Dimensional drawing



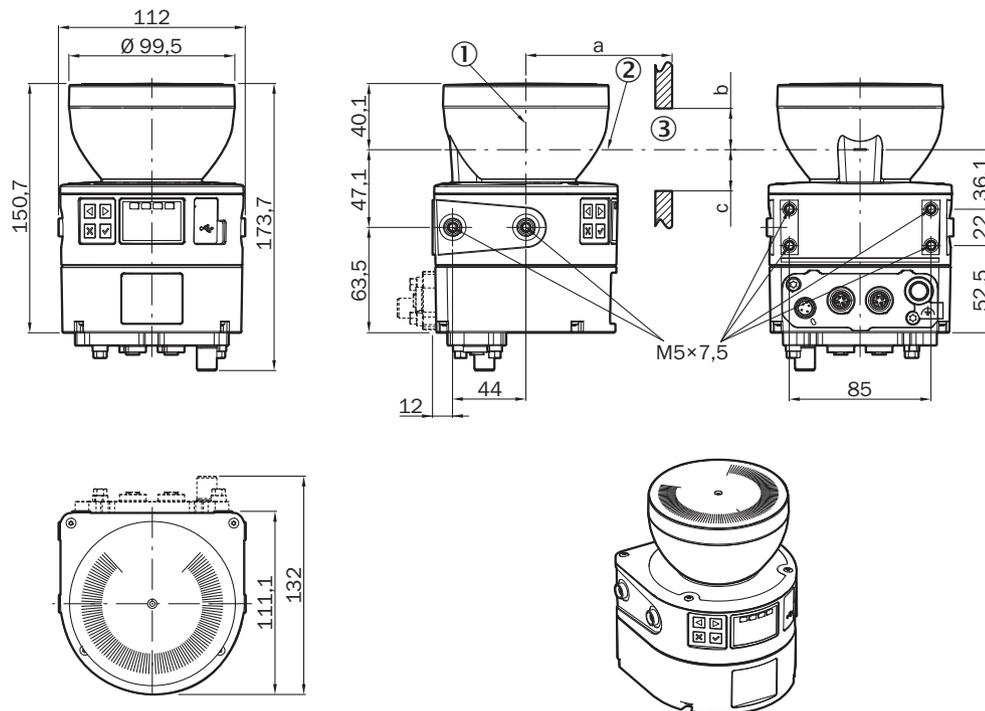
Dimensions in mm (inch)

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