

SAFETY SYSTEMS FOR ROBOTS



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Ordering information

sBot Stop

Robot restart	Primary protec- tive device (ac- cess control)	Secondary protec- tive device (pres- ence detection)	Туре	Part no.
Automatic	Multiple light beam safety device deTem4 Core Number of beams: 4 Beam separa- tion: 300 mm	Safety laser scanners microScan3 Core I/O Protective field range: 5.5 m	SAPPB2D-08X0050	1097911

This system variant enables an automatic restart of the robot.

Other models and accessories -> www.sick.com/Safe_Robotics_Area_Protection

Detailed technical data

Features

Variant	sBot Stop
Product type	Hardware and logics
Robot controller	Generic
Stopping process of the robot	Stop only
Robot restart	Automatic
Interfaces	
Communication interface	Discrete I/Os
Safe state in the event of a fault	The safety-related semiconductor outputs are in the OFF state.
Safety laser scanners	microScan3 Core I/0
Protective field range	5.5 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)
Safety sensors	
Primary protective device (access control)	Safety multibeam sensors
Secondary protective device (presence detection)	Safety laser scanners
Safety multibeam sensors	deTem4 Core
Number of beams	4
Beam separation	300 mm
Scanning range	17 m
Safety controller included	Flexi Classic
Safety controller type	Non programmable
Voltage supply	

Su	ipply voltage V_S	24 V DC (16.8 V DC 28.8 V DC)
Performance level		PL d (ISO 13849-1)
Items supplied		microScan3 Core I/O safety laser scanner deTem4 Core multiple light beam safety device sender and receiver Flexi Classic main module UE410-MU4T0 Flexi Classic UE410-8DI4 module safety controller FlexFix brackets Documentation (operating instructions, SISTEMA file, wiring diagram)

Functions

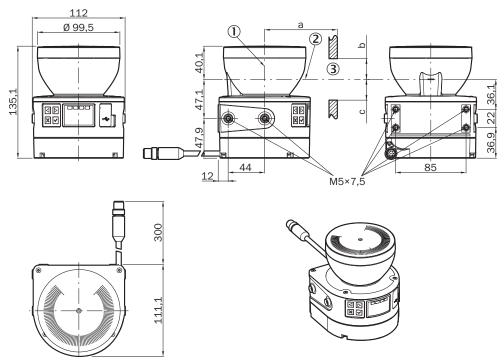
Emergency stop	
Shut down in the event of an emergency situa- tion	
Prevent unexpected restarting after an emer- gency stop	
Initiate a safety stop	
Automated reset	t 🖌
Operating mode	
Operating mode selection (implemented in robot control)	

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

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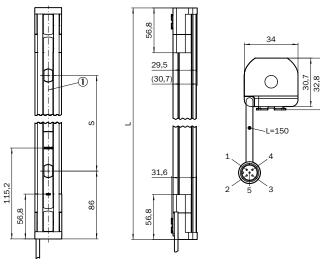
Dimensional drawing (Dimensions in mm (inch))



① Mirror axis of rotation

② Scan plane

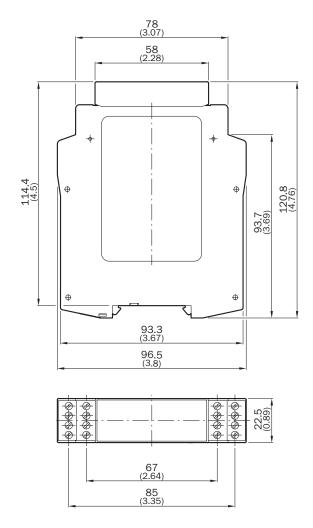
③ Required viewing slit (a: length of the viewing slit, b: minimum height above the scan plane, c: minimum height below the scan plane. See the operating instructions for details.)



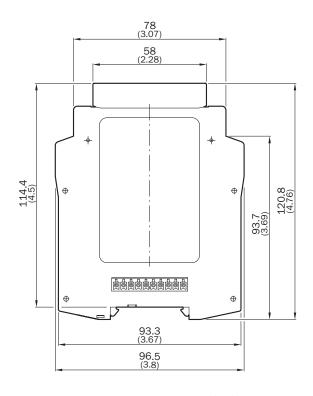
① Optical axis

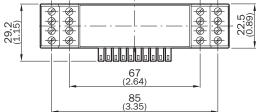
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Flexi Classic main module



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Number of beams	Beam separation S	Length L
2	500 (19.69)	672 (26.46)
3	400 (15.75)	972 (38.27)
4	300 (11.81)	1,072 (42.2)

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.

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Online data sheet

