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DATA SHEET

SEC100-5C9D1SFZZZZ

sensingCam SEC100
2D machine vision

SICK Sensor Intelligence



2D MACHINE VISION

SEC100-5C9D1SFZZZZ

ORDERING INFORMATION

Type	part no.
SEC100-5C9D1SFZZZZ	1143217

Further device versions and accessories at www.sick.com/sensingCam_SEC100



DETAILED TECHNICAL DATA

FEATURES

Product category	Streaming, flexible
Technology	2D snapshot, Streaming
Sensor	CMOS Color Powerful in low light
Shutter technology	Rolling-Shutter
Sensor resolution	2,880 px x 1,616 px (5 MP)
Working distance	0.3 m ... 10 m
Field of view	82° x 52°
Memory	6 GB, internal memory or FTP upload
Lighting	Without
Lens	Integrated
Livestream	
Scan/frame rate	5 fps ... 30 fps
Video resolution	Full resolution (2,880 x 1,616 pixels) @ 25 fps Full HD (1,920 x 1,080 pixels) @ 30 fps 720p (1,280 x 720 pixels) @ 30 fps
Video protocol	RTSP, MJPG
Real-time video transmission	Two individually configurable RTSP streams, one MJPEG stream
Video compression	H.264, H.265, Motion JPEG, configurable compression level
Image capture	
Image format	JPEG, BMP
Trigger	Digital input or software trigger via REST API, TCP/IP

INTERFACES

REST API	✓
Ethernet	✓, TCP/IP
Remark	DHCP/static (default: 192.168.0.1)
Data transmission rate	100 Mbit/s, 100Base-TX
Configuration software	Web server integrated

ELECTRONICS

Supply voltage	12 V DC ... 24 V DC ¹⁾
Power consumption	Typ. 2 W Max. 10 W
Digital input, level	Active: $10\text{ V} \leq U_{IN} \leq U_V$ Inactive: $U_{IN} \leq 2\text{ V}$
Protection class	III
Enclosure rating	IP65
Connection type	Plug, M12, 4-pin, A-coded
Supply voltage & I/O Ethernet interface	M12 female connector, 4-pin, D-coded
Pinouts for Supply voltage & I/O	-- 1 + (L+) -- 2 In -- 3 - (M) -- 4 Not connected
Pinouts for Ethernet interface	-- 1 TD + -- 2 RD + -- 3 TD - -- 4 RD -

¹⁾ SELV/PELV in acc. with currently applicable standards. Ensure the circuits connected to the device meet the requirements of ES1 and max. PS2 in accordance with IEC/UL/EN 62368-1. The Ethernet connection must meet the requirements of ES1 and PS1. Protect the supply circuit with a 1 A fuse. Nominal 12 V DC ... 24 V DC tolerance $\pm 10\%$.

MECHANICS

Dimensions (W x H x D)	57.5 mm x 49 mm x 33.6 mm (without connection)
Housing material	Plastic
Window material	Glass
Weight	120 g
Mounting	Two threads for M4 screws Two grooves for sliding nuts One ¼" - 20 UNC thread for photo tripod

AMBIENT DATA

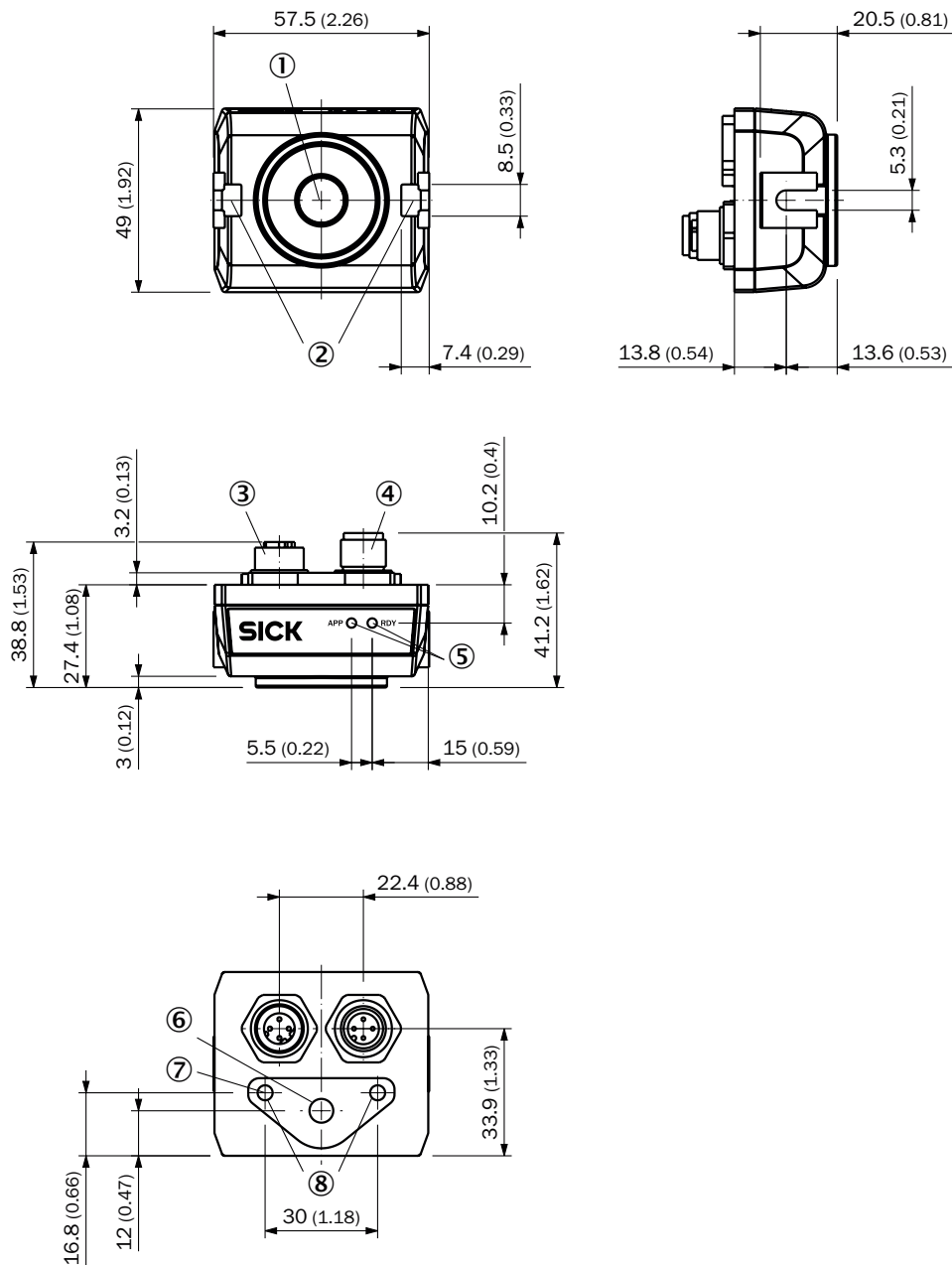
Ambient temperature, operation	0 °C ... +50 °C, Optimal image quality at 10 °C ... +40 °C
Ambient temperature, storage	-20 °C ... +60 °C
Permissible relative humidity	$\leq 90\%$
Shock resistance	150 m/s² EN 60068-2-27
Vibration resistance	EN 60068-2-6, EN 60068-2-64

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓

ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓
KC Mark certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

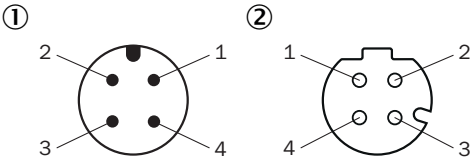
DIMENSIONAL DRAWING, SENSOR



Dimensions in mm (inch)

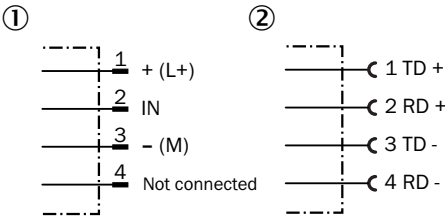
- ① Camera
- ② two grooves for sliding nuts
- ③ Ethernet interface: socket, M12, 4-pin, D-coded
- ④ Supply voltage & I/O: M12 plug, 4-pin, A-coded
- ⑤ Display elements: Power LED + application LED
- ⑥ one 1/4" - 20 UNC thread for photo tripod
- ⑦ Earthing thread (M4) for making a functional earth connection
- ⑧ two threads for M4 screws

PIN ASSIGNMENT: SUPPLY VOLTAGE & I/O AND ETHERNET INTERFACE



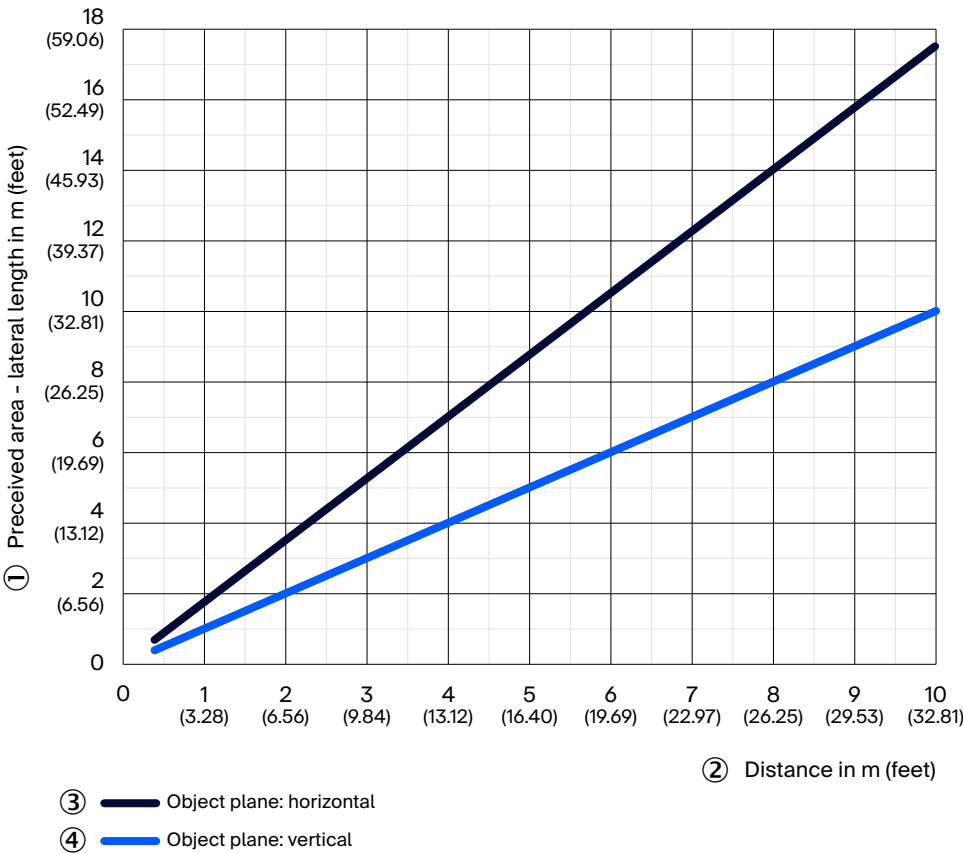
- ① Supply voltage & I/O: M12 plug, 4-pin, A-coded
- ② Ethernet interface: socket, M12, 4-pin, D-coded

CONNECTION DIAGRAM: SUPPLY VOLTAGE & I/O AND ETHERNET INTERFACE



- ① Supply voltage & I/O: Plug, 4-pin
- ② Ethernet interface: socket, 4-pin

FIELD OF VIEW - HORIZONTAL/VERTICAL



- ① Perceived area - lateral length in mm (inch)
- ② Dist in mm (inch)
- ③ Object level: horizontal
- ④ Object level: vertical

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/1143217



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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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