



DATA SHEET

# SEC200-ETHZ112ZZZZ

sensingCam SEC200  
Image-based code readers

# SICK

Sensor Intelligence



IMAGE-BASED CODE READERS

SEC200-ETHZ112ZZZZ

ORDERING INFORMATION

| Type               | part no. |
|--------------------|----------|
| SEC200-ETHZ112ZZZZ | 1154592  |

Further device versions and accessories at [www.sick.com/sensingCam\\_SEC200](http://www.sick.com/sensingCam_SEC200)



DETAILED TECHNICAL DATA

FEATURES

|                                |                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------|
| Technology                     | Image-based code reading                                                                    |
| Sensor                         | CMOS monochrome                                                                             |
| Shutter technology             | Global-Shutter                                                                              |
| Sensor resolution              | 1,080 px x 1,280 px (1.3 MP)                                                                |
| Field of view (H x V)          | 36° x 31°                                                                                   |
| Memory                         | Internal memory for storing up to 1,000 images or via FTP upload                            |
| Illumination                   | LED, white<br>LED Class 1 (IEC 62471:2006)                                                  |
| Lens                           | Integrated                                                                                  |
| Alignment aid                  | Linear green light spot (LED), Risk Group 1 according to IEC 62471:2006                     |
| Code reading performance       |                                                                                             |
| Readable code structures       | 1D codes, 2D codes                                                                          |
| Bar code types                 | Code 39, Code 128, Code 93, UPC / EAN / JAN (with addition), Code 25, Codabar, postal codes |
| 2D code types                  | QR code, Data Matrix                                                                        |
| Code resolution                | ≥ 0.2 mm                                                                                    |
| Working distance               | 100 mm ... 300 mm                                                                           |
| No. of codes per scan          | 1 ... 25                                                                                    |
| Evaluation time/Decoding speed |                                                                                             |
| Exposure time                  | 50 µs ... 33,000 µs                                                                         |
| Scan/frame rate                | ≤ 60 fps                                                                                    |
| Transport speed                | ≤ 1.5 m/s                                                                                   |
| Image capture                  |                                                                                             |
| Image format                   | JPEG                                                                                        |
| Trigger                        | Digital input or software trigger via TCP/IP                                                |

INTERFACES

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| Ethernet               | ✓ , TCP/IP                                                                        |
| Remark                 | DHCP/AutoIP/static (Standard hostname: sec200-sick.local), NTP, HTTP, HTTPS, mDNS |
| Data transmission rate | 100 Mbit/s, 100Base-TX                                                            |
| REST API               | ✓                                                                                 |

|                        |        |                                                                                                                                                        |
|------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | Remark | REST API for configuration                                                                                                                             |
| Optical indicators     |        | 3 status LEDs (Three status LEDs on the top of the device)<br>1 Feedback LED (One green feedback LED for code presence detection in the field of view) |
| Acoustic indicators    |        | 1 beeper                                                                                                                                               |
| Configuration software |        | Web server integrated                                                                                                                                  |

## ELECTRONICS

|                                                     |                      |                                                                                                 |
|-----------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------|
| Supply voltage                                      |                      | 12 V DC ... 24 V DC <sup>1)</sup>                                                               |
| Power consumption                                   |                      | Typ. 5 W<br>Max. 8 W                                                                            |
| Digital input, level                                |                      | $U_V \geq 18 \text{ V}$<br>Active: $U_{IN}$<br>Inactive: $U_{IN}$<br>$U_V$                      |
| Digital output, level                               |                      | Push-pull: PNP/NPN<br>Active: $U_{OUT}$<br>Inactive: $U_{OUT}$<br>Maximum output current: 50 mA |
| Protection class                                    |                      | III                                                                                             |
| Electrical safety                                   |                      | EN 62368-1                                                                                      |
| Connection type                                     |                      |                                                                                                 |
|                                                     | Supply voltage & I/O | Connector M12, 5-pin, A-coded (PUR), 300 mm                                                     |
|                                                     | Ethernet interface   | M12 female connector, 4-pin, D-coded (PUR), 200 mm                                              |
| Pinouts for <small>Supply voltage &amp; I/O</small> |                      |                                                                                                 |
|                                                     | -- 1                 | + (L+)                                                                                          |
|                                                     | -- 2                 | $I_{N1}$                                                                                        |
|                                                     | -- 3                 | - (M)                                                                                           |
|                                                     | -- 4                 | $Q_1$                                                                                           |
|                                                     | -- 5                 | $Q_2$                                                                                           |
| Pinouts for <small>Ethernet interface</small>       |                      |                                                                                                 |
|                                                     | -- 1                 | TD +                                                                                            |
|                                                     | -- 2                 | RD +                                                                                            |
|                                                     | -- 3                 | TD -                                                                                            |
|                                                     | -- 4                 | RD -                                                                                            |

<sup>1)</sup> ± 10% (SELV / PELV in accordance with currently applicable standards).

## MECHANICS

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Dimensions (W x H x D) | 56 mm x 56 mm x 30.5 mm (without connection)                         |
| Housing material       | Aluminum, plastic                                                    |
| Window material        | Glass                                                                |
| Weight                 | 180 g                                                                |
| Mounting               | Six threads for M4 screws<br>One ¼" - 20 UNC thread for photo tripod |

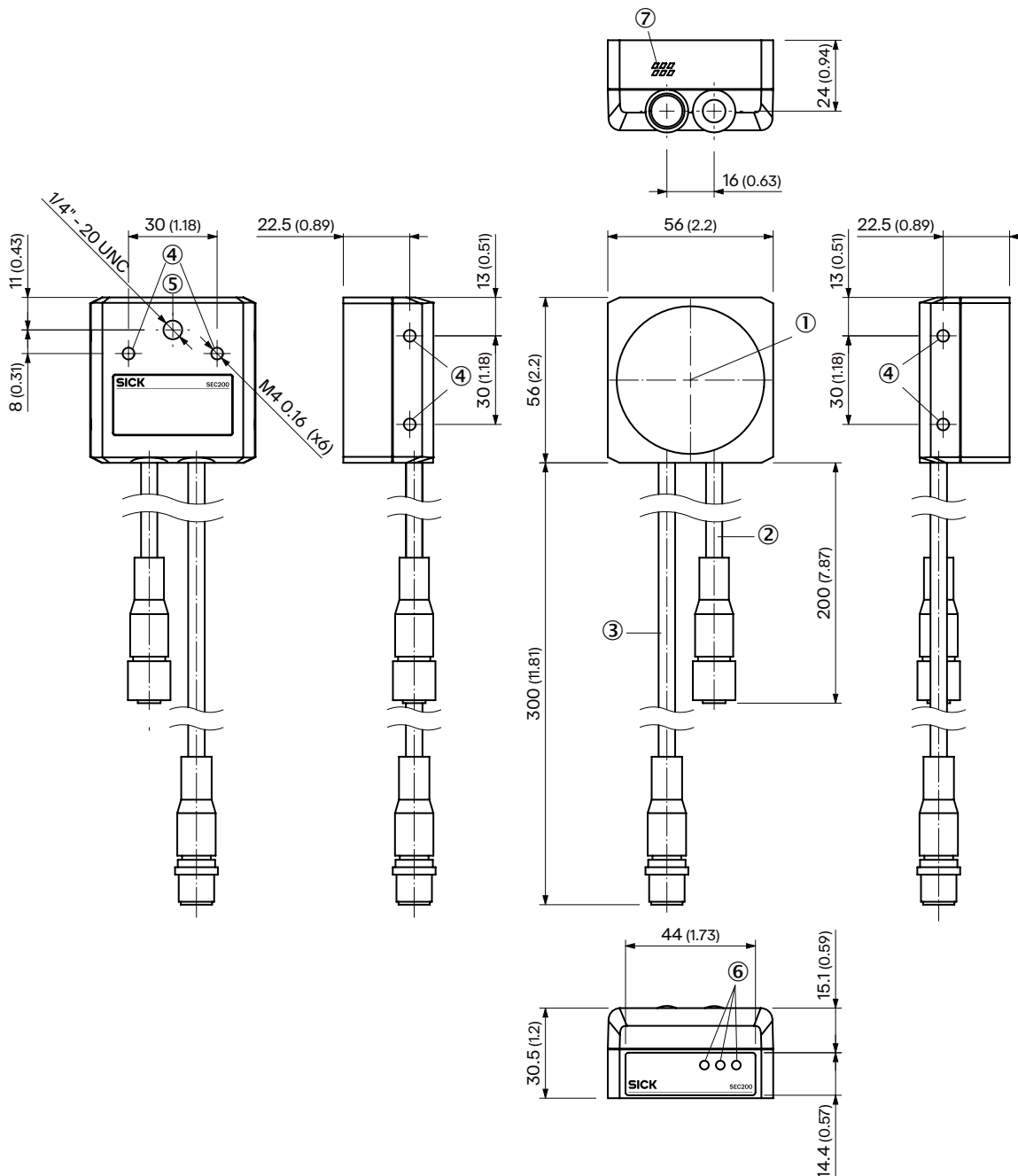
## AMBIENT DATA

|                                     |                                                                          |
|-------------------------------------|--------------------------------------------------------------------------|
| Ambient temperature, operation      | 0 °C ... +50 °C                                                          |
| Ambient temperature, storage        | -20 °C ... +60 °C                                                        |
| Permissible relative humidity       | ≤ 90 %                                                                   |
| Enclosure rating                    | IP65                                                                     |
| Shock resistance                    | 150 m/s <sup>2</sup> EN 60068-2-27                                       |
| Vibration resistance                | 50 m/s <sup>2</sup> EN 60068-2-6, EN 60068-2-64                          |
| Electromagnetic compatibility (EMC) | Emission according to EN 61000-6-3<br>Immunity according to EN 61000-6-2 |

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) | ✓ |

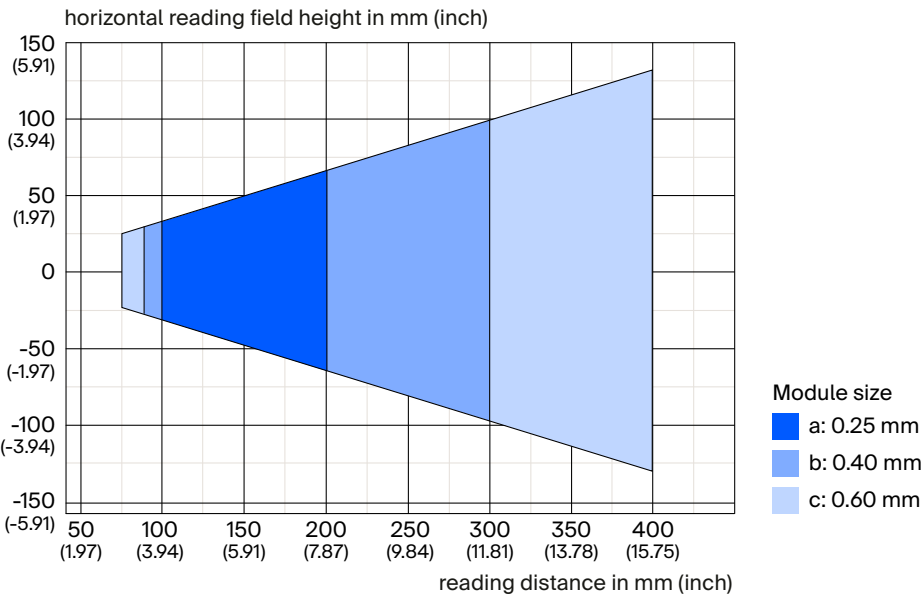
# DIMENSIONAL DRAWING, SENSOR



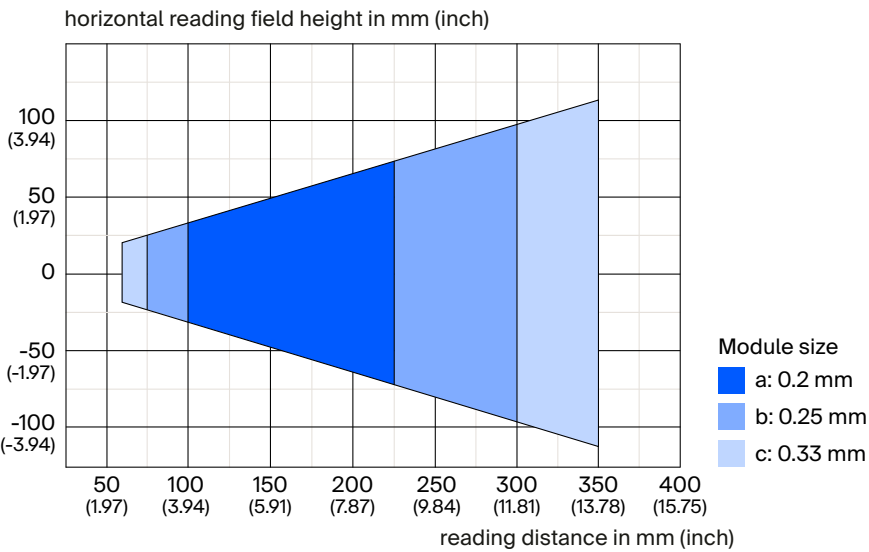
Dimensions in mm (inch)

- ① Camera with protective glass
- ② Ethernet interface: socket, M12, 4-pin, D-coded
- ③ Supply voltage & I/O: plug M12, 5-pin, A-coded
- ④ Six threads for M4 screws
- ⑤ one 1/4" - 20 UNC thread for photo tripod
- ⑥ Display elements
- ⑦ Acoustic signal transmitter

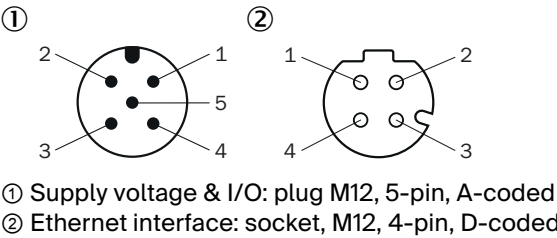
READING FIELD DIAGRAM, 2D

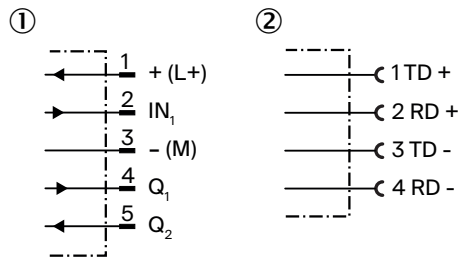


READING FIELD DIAGRAM, 1D

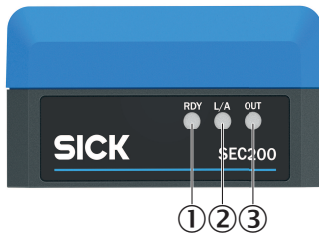


PINOUTS, SEE TABLE TECHNICAL DATA: ELECTRONICS



**CONNECTION DIAGRAM**

- ① Supply voltage & I/O: plug, 5-pin  
② Ethernet interface: socket, 4-pin

**DISPLAY AND ADJUSTMENT ELEMENTS**

- ① LED: RDY  
② LED: L/A  
③ LED: OUT

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/1154592](http://www.sick.com/1154592)



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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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