

PC2SE Technical Datasheet



General Description

| | |
|--------------|---|
| Technology | 3D stereo vision / Edge computing with artificial intelligence (AI) |
| Environment | Indoor |
| Data storage | up to 3 years (depending on the number of counters) |
| Data privacy | 4 privacy modes / data is only transmitted in text format and without any kind of personally identifiable information |
| Integration | API with Swagger documentation, data pushes, remote device management tool, count verification tool on-device |

Electrical Characteristics

| | |
|-------------------|--|
| Power supply | Power over Ethernet, Class 0 (IEEE 802.3af, nominal 48V) |
| Power consumption | Maximum 6.0 W, 0.125A |

Environmental Conditions

| | |
|-----------------------|---|
| Required illumination | Minimum 2 lux |
| Operating temperature | 0 °C to +45 °C / +32 °F to +113 °F |
| Storage temperature | Long-term storage (max. 6 months): +5 °C to +35 °C / +41 °F to +95 °F transport (< 1 month): -20 °C to +70 °C / -4 °F to +158 °F |
| Relative humidity | 20 to 80 % (non-condensing) |
| Pollution degree | PD2 (acc. to IEC 62368) |
| Ingress protection | IP40 (acc. to IEC 60529) |
| Shelf life | 6 months |

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Physical Interfaces

| | |
|------------------|---|
| Ethernet | IEEE 802.3ab 1000Base-T (Gigabit Ethernet) |
| Connector | RJ 45 |
| Cable | Up to 100 m / 328 ft, min. Cat-5e (shielded) or higher |
| PoE power source | Use power supplies compliant with all locally applicable safety standards |

Network Interfaces

| | |
|---------------------|---|
| Supported protocols | IPv6, IPv4, DHCP, HTTPS and password-protected configuration access |
| Data push protocols | HTTP(S), FTP(S), SFTP, MQTT(S), TCP, UDP |

Installation / Mounting

| | |
|-----------------------|--|
| Mounting options | Different mounting options available. Find more information in our accessory brochure. |
| Mounting height | PC2SE / PC2SE-L: 2.20 m to 6.00 m / 7.22 ft to 19.69 ft PC2SE-UL: 2.20 m to 3.50m / 7.22 ft to 11.48 ft Find more information in our selection guide to get an overview of the coverage. |
| Mounting angle (tilt) | +/-15° in x-axis +/- 5° in y-axis |
| Grounding | Sensor grounding is optional. The use of shielded cables is recommended. |

Mechanical Characteristics

| | |
|------------------------|---|
| Weight (incl. Cover) | 300 g / 0.66 lb |
| Weight (without Cover) | 250 g / 0.55 lb |
| Dimensions (L x W x H) | Without plastic cover: 12.76 x 8.89 x 3.16 cm / 5.02 x 3.50 x 1.24 in With plastic cover: 13.02 x 9.32 x 3.28 cm / 5.13 x 3.67 x 1.29 in |

Standards, approval, certificates

| | |
|--------|---|
| Safety | IEC 62368-1 EN 62368-1 |
| EMC | IEC 61326-1 EN 61326-1 CISPR 11 / EN 55011 CISPR 32 / EN 55032 CISPR 35 / EN 55035 FCC 47 CFR part 15 Edition ICES-001, Issue 5 |
| Others | 2011/65/EU (RoHS) |

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| MTBF Results | | |
|----------------|--------------------|-----------------|
| Temperature °C | Failure Rate [FIT] | MTBF [h/years] |
| 40 | 1531.6 | 652'891 / 74.53 |
| 55 | 2664.7 | 375'280 / 42.84 |
| 60 | 3215.7 | 310'978 / 35.50 |
| 65 | 3885.5 | 257'365 / 29.38 |

MTBF Calculation based on IEC 61709:2017 (SN 29500:2014) for stationary use at weather protected locations (E1) for mean component ambient temperatures.

| Models and ordering information | |
|---------------------------------|--|
| Available models | Features / Benefits |
| PC2SE (basic model) | 2.20 m to 6.00 m / 7.22 ft to 19.69 ft |
| PC2SE-UL | 2.20 m to 3.50 m / 7.22 ft to 11.48 ft Optimized for low mounting heights |
| PC2SE-L | 2.20 m to 6.00 m / 7.22 ft to 19.69 ft Optimized for mounting heights close to 6m/19.69ft |
| Color | Sensor: Black (RAL 9005) Plastic cover: white (RAL9003) or black (RAL9005) Note: plastic cover is suitable for being painted |

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