PC2RE Technical Datasheet

General Description	
Technology	3D stereo vision / Embedded processing with artificial intelligence (AI) / Device Monitoring
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 48 V)
Power consumption	Maximum 8.0 W, 0.167 A

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

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
WiFi/Bluetooth	Dual Band (2.4 + 5 GHz), IEEE 802.11b/g/n/a/ac Wave 2 WiFi Bluetooth® + Bluetooth® Low Energy v5.0

Network Interfaces	
Supported protocols	IPv6, IPv4, DHCP, HTTPS, IEEE 802.1x and password-protected configuration access
Data push protocols	HTTP(S), FTP(S), SFTP, MQTT(S), TCP, UDP

Mechanical Characteristics	
Weight (incl. Cover)	305 g / 0.67 lb
Weight (without Cover)	255 g / 0.56 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

Installation / Mounting	
Mounting options	Different mounting options available. Find more information in our accessory brochure.
Mounting height	**PC2RE / PC2RE-L**: 2.20 m to 6.00 m / 7.22 ft to 19.69 ft **PC2RE-UL:** 1.95 m to 3.50m / 6.4 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.

Standards, approval, certificates	
Safety	IEC 62368-1 EN 62368-1
EMC & Radio	CISPR 32 / EN 55032 CISPR 35 / EN 55035 EN 300 328 EN 301 489-1 / EN 301 489-17 EN 300 893 FCC 47 CFR part 15 Edition
Privacy	ePrivacy seal, 4 privacy levels for GDPR-compliant operation
Others	2011/65/EU (RoHS)

MTBF Results		
Temperature °C	Failure Rate [FIT]	MTBF [h/years]
40	1656.1	603'835 / 68.93
55	2867.3	348'765 / 39.81
60	3455.2	289'421 / 33.04
65	4169.2	239'853 / 27.83

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
PC2RE (basic model)	2.20 m to 6.00 m / 7.22 ft to 19.69 ft
PC2RE-UL	1.95 m to 3.50 m / 6.4 ft to 11.48 ft Optimized for low mounting heights
PC2RE-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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