E.C.S

EDGE COMPUTING SENSOR
EMBEDDED SMART SENSOR

ECS is a solution that can be installed in hazardous areas, consisting of fixed sensors with embedded artificial intelligence (Edge-Computing). These smart sensors detect and analyse risk situations in real time. The combination of image processing and artificial intelligence can drastically reduce detection failures and false positives.

Security
At the cutting edge of technology, the ECS offers flexibility and the best security thanks to its various embedded applications.

Independent
ECS does not need to be connected to the 4G network (cloud), detection, processing and signalling are built-in.

Innovative
The only solution currently available with built-in Artificial Intelligence for the protection of people and property.

Efficient
Improved safety, security, quality and productivity on all types of sites (industrial, transport, urban environment, etc.)

PRINCIPLE OF OPERATION OF OUR SOLUTION

- Edge-Computing (embedded AI)
- Multi-sensor solution (cameras, radar external, etc.)
- Very high detection rate due to its use of dedicated databases
- Proven reliability through the use of specific filters
- Can be installed on sensitive sites and in industrial environments (optional IP 54 housing)
- Quick and easy system configuration
- Complies with image rights with our solution embedded in the sensor
- Fan less architecture for optimal reliability

CONNECTION, MOUNTING

- Small housing footprint
- Compact size 114 x 114 x 60 mm
- Innovative universal and secure mounting compatible with Ram-Mounts® (More than 500 mounting options)
- Low power use

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YUMAIN
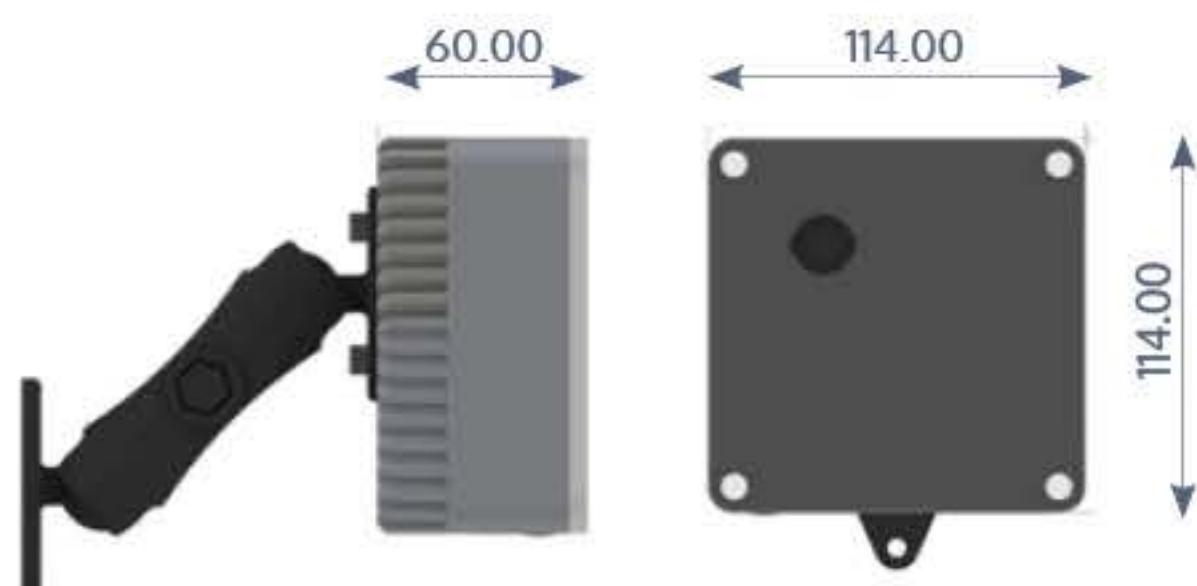
ECS CHARACTERISTICS

Relay outputs

Number of relays	2
Relay type	SPST (normally open)
Maximum switching voltage	AC : 125 V @ 0.3 A − DC : 24 V @ 1 A
Dielectric strength between input/output	1 .000 VRMS
Contact resistance	100 mOhm max
Typical triggering time	1.1 ms
Max triggering time	5 ms
Typical opening time	0.4 ms
Max opening time	5 ms
Relay status LED on the front panel	Yes
Electrical life at nominal load	1×10^5 cycles @ 1 A, 24 VDC
Mechanical life	5×10^6 cycles

Isolated inputs

Number of inputs	2
Input voltage	12 - 24 VDC, non-polarised
Input resistance	1 kΩ @ 0.33 W
Dielectric strength between input/output	5 .000 VRMS

Supply voltage

DC 12V/24V/48V (optionally 230 VAC)

Power draw

• Typical : 16 W
• Peak power draw : 25 W

General characteristics

• Power connector: Wurth Elektronik 691361300002
• Terminal cable section: 18 to 24 (AWG) ; 1.28 to 0.205 (mm²)
• Input/output connector: Wurth Elektronik 691381000008
• Terminal cable section: 16 to 24 (AWG) ; 1.31 to 0.205 (mm²)
• Weight: 950 g
• Dimensions: 114 mm x 114 mm x 60 mm

Due to changes in standards and equipment, the characteristics given in the texts and images in this document are only binding after confirmation by our services.

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POSSIBLE APPLICATIONS

Prevention of pedestrian/vehicle collisions on industrial sites (Forklifts, nacelles, construction equipment)

Automatic analysis and extraction of surveillance images

Sécurisation et délimitation des zones de dangers (Docks: loading / unloading area, dangerous intersections)

Intrusion detection

Wearing of PPE (Detection of helmet not wearing in a defined area)

YUMAIN
Sensing & Predictive AI

www.yumain.fr