

ECS is a solution of embeded artificial intelligence (Edge-Computing) that can be installed in means of transportation for a flow analysis. These smart sensors detect and analyse in real time passenger flows (counting the number of person getting on and off the transport)..



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 builtin.



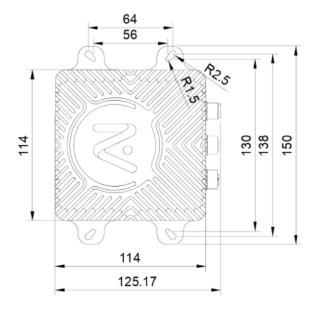
Innovative

The only solution currently available with built-in Artificial Intelligence for passenger flow analysis in transportation.



Efficien

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



46.5

PRINCIPLE OF OPERATION OF OUR SOLUTION

- Edge-Computing (embedded AI)
- Very high detection rate due to its use of dedicated databases
- Proven reliability through the use of specific filters
- Homologation marking E for the installation in means of transport
- Quick and easy system configuration (Via web configurator)
- 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 46.5 mm
- M12 industrial connection
- Low power use



E.C.S.T CHARACTERISTICS

Relay outputs	
Number of relays	2
Relay type	Solid State Relays
Maximum switching voltage	60 V
Dialectric strength between input/output	1000 MΩ @ 500VDC
Contact resistance	0.7 Ω
Typical triggering time	1.3 ms
Max triggering time	5.0 ms
Typical opening time	0.1 ms
Max opening time	0.5 ms
Charging current (continuous)	1.1 A

Isolated inputs	
Number of inputs	2
Input voltage	12 - 48VDC non-polarised
Input resistance	1 µs
Dialectric strength between input/output	10^14 Ω

Supply voltage 12 -24 VDC

Power draw

- Typical: 5W to 10W
- Peak power draw: 15W

General characteristics

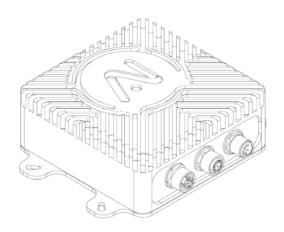
- Power connector: M12 4 positions
- Terminal cable section: M12 X coding
- Input/output connector: M12 8 positions
- Weight: <1Kg
- Dimensions: 114mm x 150 mm (excluding connectors)

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



PASSENGER BOARDING AND ALIGHTING ANALYSIS AND COUNTING



Pedestrian flow analysis



Stroller flow analysis



Wheelchair flow analysis

