



**iris** INTELLIGENT  
SENSING

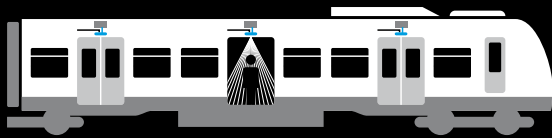
# IRMA 6

The 6<sup>th</sup> generation of counting sensors from company iris. The IRMA 6 sensor provides optimum accuracy and reliability thanks to the well-proven Time-of-flight technology (ToF).

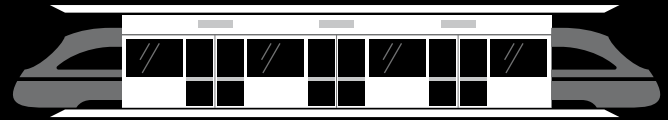
## FEATURES



- 80,000 pixel sensor with 3D time-of-flight technology (ToF)
- Integral 2 core DSP and ARM for signal processing and counting
- Active laser light sources with VCSEL technology
- Detection and evaluation of passenger's statures (Object analyzer)
- Simultaneous detection of the direction of motion for boarding and alighting passengers (regardless of door height or crowds)
- Interfaces: Ethernet, PoE (Power over Ethernet)
- Electrical output / input for door contact and Door Clear feature
- Flexible interface management thanks to modular concept
- Simple and well-thought-out installation concept using only 2 screws, twist-lock
- Intuitive web interface
- Slim housing
- No door contact necessary: counting begins via telegram from the OBC
- Just one sensor per door required (standard vehicle doors only)
- Works independently of ambient light
- The installation requires no free blind range below the sensor



TRAINS



PLATFORM SCREEN DOORS



TRAMS



TROLLEY BUSES



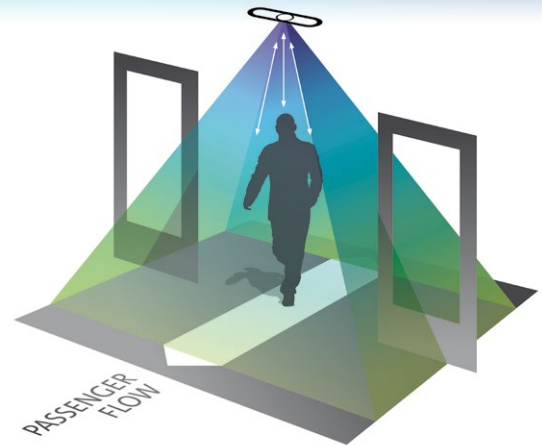
BUSES



FERRYBOATS

## APPLICATIONS

- Real time capture of passenger load
- Precise revenue sharing facilitated by highly accurate monitoring of transport services, based on revenue passenger kilometers (RPK) and height classification of passengers
- Demand-based management of fleet deployment



## TECHNICAL DATA

Specifications subject to change.  
Technically binding is the particular product data sheet.

Dimensions (W×H×L)

Housing

Protection class

Interface

Connection

Type approvals, standards

Vehicle integration /  
System architecture

Power supply

Weight

Pixel

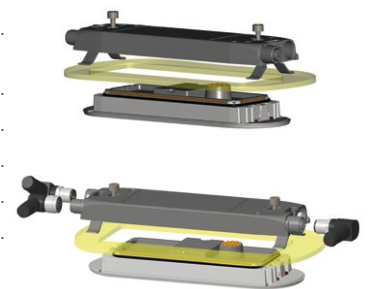
MTBF

Required external lighting

Minimum installation height

Accuracy

- 62×32×217 mm
- Aluminum pressure casting housing
- Optical openings made of synthetic materials (polycarbonat)
- IP65
- Ethernet, 100 Mbit/s
- M12, D-coded
- EN50155, ECE, CE, EN50121-3-2, EN45545-2, EMV-o6
- Ethernet via VDV301, ITxPT
- 24 VDC or 48 V PoE
- power consumption: Typical 7 W
- approx. 480 g
- 80.000 pixel
- 1,2 million hours
- 0 LUX
- Allowing passengers to pass upright underneath the sensor, < 1.80 m
- Typical: 99 %



Space saving and hassle free  
cable installation due to  
180° rotatable M12 connectors

