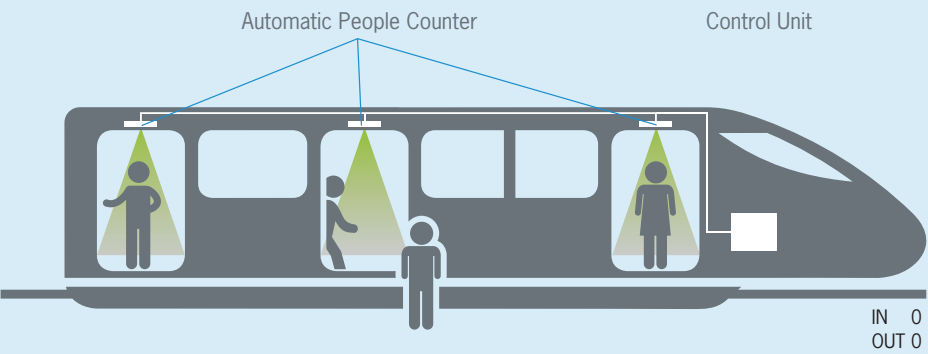## Counting Process

Eurotech's Automatic People Counters work both as stand-alone and connected to a Control Unit that collates, saves and loads the information arriving from the Passanger Counters.

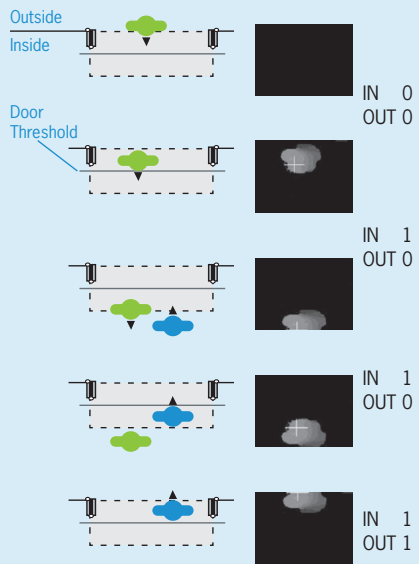Automatic People Counter   Control Unit

IN   0
OUT   0

People entering the detection area are recognized and tracked.
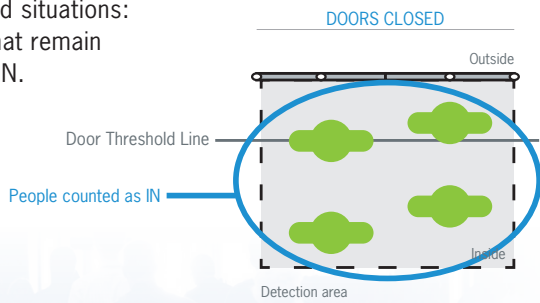
During the tracking process:

The two counters are incremented if a person enters the detection area, crosses the door threshold line and then exits from the detection area on the opposite side (the threshold line may be adjusted).

Erroneous calculations are avoided in the case of a person just moving in proximity of the door (like in crowded situations).

Outside
Inside

IN   0
OUT   0

Door
Threshold

IN   1
OUT   0

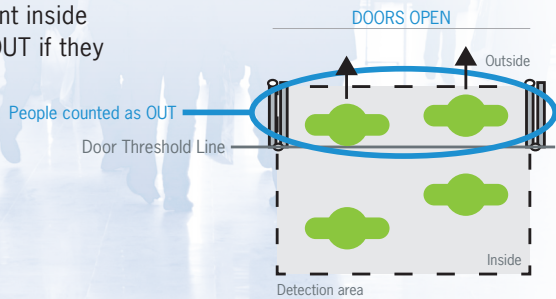IN   1
OUT   0

IN   1
OUT   1

Door Contact Management

To ensure precise counting in crowded situations:
When the doors are closed, people that remain in the detection area are counted as IN.

DOORS CLOSED

Outside

Door Threshold Line

People counted as IN

Inside

Detection area

When the doors open, people present inside the detection area are counted as OUT if they leave the area.

DOORS OPEN

Outside

People counted as OUT

Door Threshold Line

Inside

Detection area

EUROTECH

Imagine. Build. Succeed.

People Counters

EUROTECH

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sales.na@eurotech.com

Latin America
sales.la@eurotech.com

Europe, Middle East and Africa
sales.emea@eurotech.com

Asia Pacific
sales.ap@eurotech.com

ETH_PCN_Flyer_12/2019_Rev.01

Automatic People and Passenger Counters

Designed to be the most accurate solution for people counting operations

Eurotech people and passenger counting systems are compact and autonomous devices designed to be installed above doorways in all areas where monitoring is required.

Based on stereoscopic vision technology, our people counting devices ensure reliable and precision performance. Their rugged design makes them suitable to the most demanding environments.

PRODUCT

- High Accuracy and precision in any light conditions
- Easy to install and set up Vertical Markets
- Simple integration with standard protocols
- Door contact management
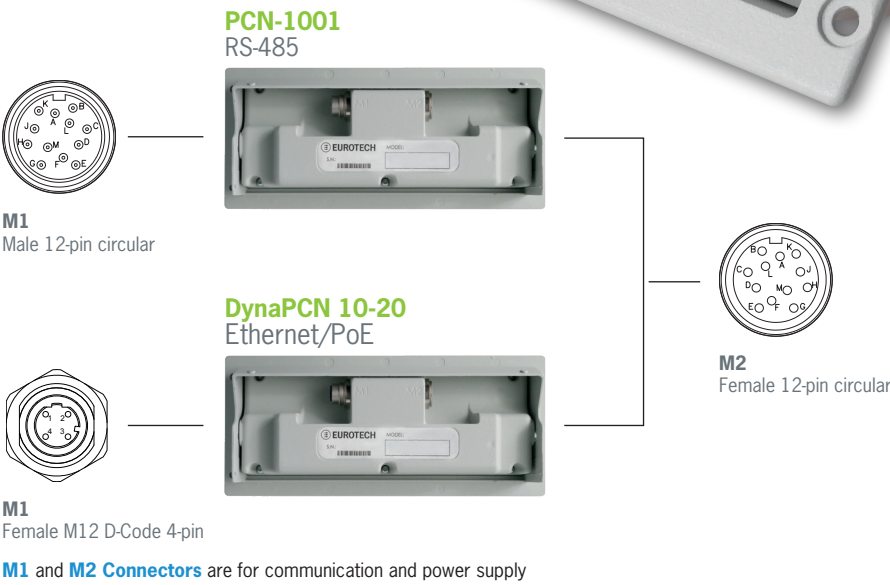- IoT-ready

BENEFITS

CUSTOMER

- Operational and service improvements
- Fraud detection
- Fee calculation
- Optimized route and capacity planning
- Real-time data for analytics

Technical Features

- **Stereoscopic vision** technology
- **Infrared illumination** for reliability in any light conditions
- **Accuracy ≥ 98%:** not affected by temperature, color, light intensity
- **Precision ≥ 99%**
- Integrated **real-time clock**
- Internal **data memory**
- Accurate detection with **internal Artificial Intelligence**

Two Models

PCN-1001
RS-485

M1
Male 12-pin circular

M2
Female 12-pin circular

DynaPCN 10-20
Ethernet/PoE

M1
Female M12 D-Code 4-pin

M1 and **M2 Connectors** are for communication and power supply

Certifications

- **EN50155** and **EN45545**
- Automotive **E-Mark**
- **IP65** sealed magnesium alloy enclosure
- **Extended Operating Temperature** range: EN50155 **Class TX from** -40°C to +70°C (up to +85°C for 10 minutes)

IP65   EN50155   Class TX   E-xx

Ready-to-use IoT Solution

Incorporating IoT and cloud infrastructures allows integration with people management applications such as fleet and public transport optimization, allowing train or bus lines and schedules to be adjusted according to the passenger flow.

IT Application Integration

IoT Integration Platform

EC Everyware Cloud

IoT Communication Protocols

IoT Edge Framework

ESF Everyware Software Framework

Multi-service IoT Edge Gateways