

# People Counter

## Detector for Counting People Indoors



ADEC people counter is a simple solution to accurately count people indoors in areas not affected by direct sunlight. The system easily overcomes the limitations inherent in today's people counter solutions operating with single or stereo-cameras.

The advantage of using sensors that use 3D point-cloud data is the absence of any and all privacy concerns: No data is acquired that would allow the identification of individuals. Additionally, the active nature of the system makes it independent from ambient light to work properly.

### Typical Applications

The people-counter system has been developed with typical counting applications in mind:

- Visitor counting
- Emergency & evacuation services
- Entrance / exit count

In addition to common applications, the system's design supports more advanced people tracking applications when using multiple counters linked together

- Entry / exit count at arbitrarily large pathways
- Data to provide geo-location / GPS services indoors
- Tracking of people movement over arbitrarily large area
- Counting of people in polygon-shaped stitch-together areas

### Principle of Operation

Each counter acquires 3D point-cloud information from the built-in sensor. Any number of counting lines or polygons can be defined. Counting information is stored locally or in a central database. Detectors report automatically to the commissioning tool for calibration and configuration of count lines. Data can be read from counter device using ODBC into any customer application, including Excel, Word etc.

### Mounting

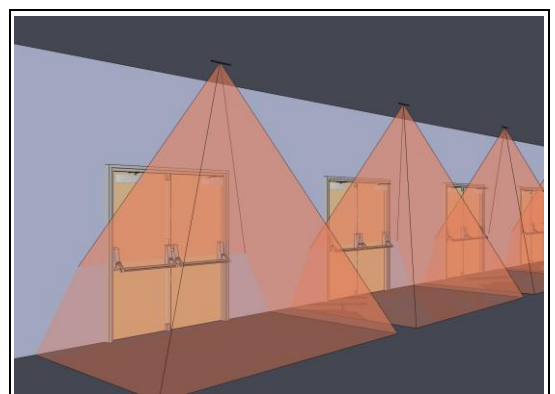
The sensor is mounted at 3 – 4.5 m (10-15 ft.) above the floor. Standard Power-over-Ethernet restrictions apply: Maximum Ethernet cable length 100m (330 ft.) from injector or PoE switch.

### Features

- **Accurate Counting of People Indoors**  
Supports any number of count lines and polygon-shaped count-areas
- **Works in complete darkness**  
Does not require ambient light, works in emergency situations and complete darkness
- **Minimal power consumption / PoE**  
Power consumption of <5W enables operation on regular PoE-capable network switch
- **Privacy preserved**  
3D point-cloud sensors eliminate need for video-based surveillance and camera-based image acquisition & analysis
- **Auto-configuration**  
Configuration software automatically discovers counters and facilitates guided configuration
- **Time/Location Data Output**  
Counts extracted from tracking information
- **Measurement of Aerial Count**  
Measures number of people in polygon-shaped area



### Sample Installation



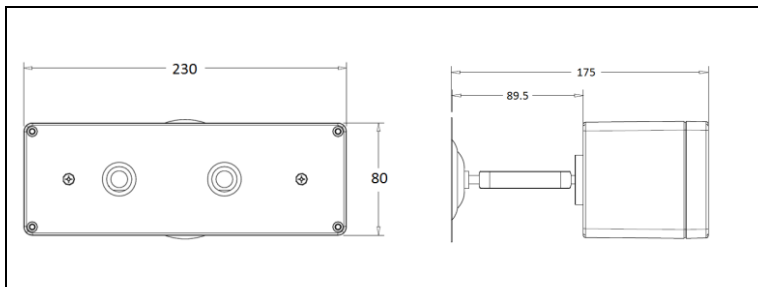
## Technical Specification

Electrical	
Supply	via injector or PoE switch (802.3af)
Power consumption	5W max
Communication	Ethernet, 802.3af (PoE)
Power-up	Typically < 60 s from power on
Mechanical	
Dimensions [mm]	230 x 80 x 85 (w/o brackets)
Housing	PVC black
Mounting points	Standard CCTV Camera 3/4" flunsh
Weight	app. 650 g (23 oz)
Counting & Tracking	
Accuracy	>96% in difficult environment >99% in regular setting
Counting Objects	Unlimited counting lines & polygons
Environment	
Operating Temperature	0°C to +50°C (32°C to +122°F)
Humidity	95 % RH max. (non-condensing)
IP protection	(not for outdoor use)

## Detector



## Mechanical Dimension



### Important:

Data is based on samples and believed to be representative. Design and specification changes reserved without prior notice. For more specific information on the products, their installation and application please refer to the installation manual or contact the manufacturer.

## Accessories

### PoE Power Injector

802.3af-compliant injector adds power to the detector if no PoE Router is used  
Part # 21010



### Communication & Infrastructure

802.3af-compliant professional POE-capable 8-port switch Part #21055



### Ethernet Cables

1 m (3.3 ft.)	Part #65022
2 m (6.6 ft.)	Part #65023
5 m (16 ft.)	Part #65025
10 m (33 ft.)	Part #65028
20 m (66 ft.)	Part #65030
50 m (164 ft.)	Part #65035
90 m (295 ft.)	Part #65039

## System

