

Centurion Cyclops

Concept

Cyclops is a people detection 'eye' which works by detecting people's thermal image. Cyclops is mounted in a downward looking manner, with an unhindered view of the target area. Cyclops then detects people by their body heat, tracking and counting multiple people and their direction or travel even when side by side or crossing over. The sensing area is a square on the floor whose width is approximately equal to the mounting height.

To view a video of Cyclops in action click here:

<http://video.google.com.au/videoplay?docid=8209027701713142333>

The CENTAMAN advantage...

- *Technically superior products*
- *Sydney based 24/7 support helpline*
- *Local offices for a faster response*
- *Flexible support packages*
- *Supply only to turnkey project delivery options*
- *14 Years experience in successfully delivering entrance control solutions*



Cyclops

Cyclops utilises a low resolution array of thermal sensors to detect the infrared radiation given off naturally by people. As they pass underneath it, the detector sees each person as activity in a cluster of the elements of the 16x16 array of infrared sensors, and converts this activity into a virtual object, which can then be tracked through the field of view and counted as it crosses a count line in the appropriate direction.

As Cyclops is based on thermal imagery it is a highly accurate detector that does not get false counts from trolleys, post carts, umbrellas, empty wheelchairs and other similar objects that can plague beam based detection technologies. Additionally it can work in any lighting conditions and will not have miscounts from shadows or other ambient or changing lighting conditions that can cause issues with CCTV based systems.

Applications

Tailgate Detection

In tailgate mode Cyclops is mounted on the secure side of the door and integrates with the existing access control system. A virtual count line is positioned to detect people entering. A relay input from the access control system provides a pulse for each valid card presented. If more people are counted over the count line than valid cards presented, the tailgate alarm relay output is triggered to interface with CCTV, local counters, door locks or alert security. People exiting in the opposite direction are ignored.

One Way Detection Mode

In this mode Cyclops is intended to output an alert when a person is detected going the wrong way whilst not restricting people travelling in the allowed direction.

Example environments where this would be required include:

- Airports and aeroplane boarding gates
- Ferry terminals
- Supermarkets
- Fire Doors
- Exit corridors for major public events

People Counting

In people counting mode Cyclops triggers either its 'in' or 'out' relay when it sees someone travelling in the appropriate direction of travel. Cyclops can accurately count people, even when they are walking side by side giving over 95% accuracy.

Configuration

Configuration software is available for Cyclops that can be used for setting the sensitivity of detection and also for configuring the detection area allowing for areas to be 'masked' off.

Applications:

- High Security Tailgate Detection
- Directional Control - Wrong Way Alarm
- Accurate People Counting

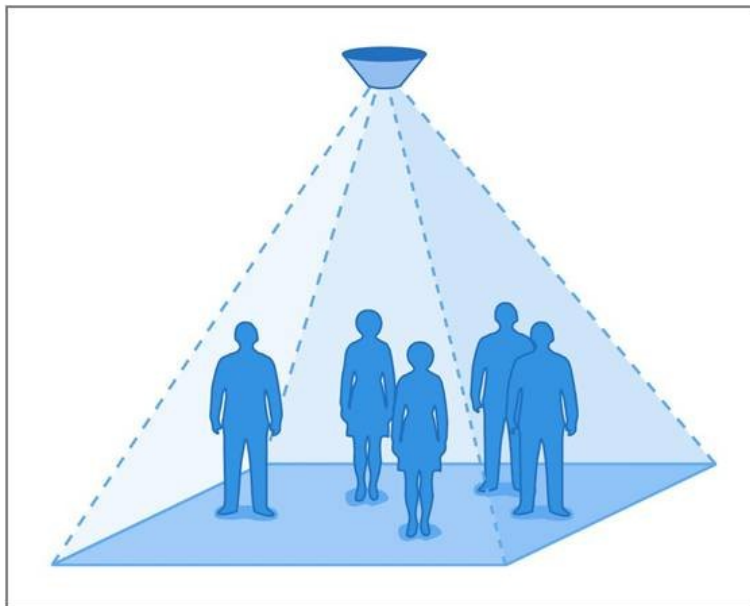
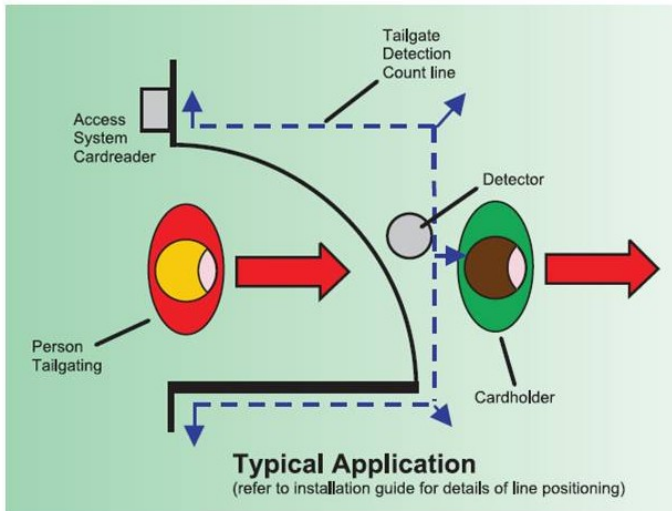
Key Benefits:

- Increased Door Security
- Detects Unauthorised Entry/Exit
- Enforces Use of Card/Token/Biometrics
- Helps maintain anti-passback
- Improves Roll-Call Accuracy
- Knows Direction of Travel

Features:

- High Detection Rate of People
- Low False Alarm Rate
- Operates in any Lighting Conditions
- Interface to access control system
- Relays for CCTV and Local Sounders

'Like having a guard at a door 24/7'



Specification

Interface: Tailgate Configuration

Valid Card Input:
Relay pulse: 12VDC for >100ms
Gap of >100ms between successive pulses.
Input impedance: 500k ohms

Outputs (subject to mode):

Tailgate Alarm

Solid state normally closed relay referenced to 0V
Relay rating: 30VDC, 100mA
Alarm time: 10ms, 30ms, 100ms, 200ms, 250ms, 500ms, 1s, 2s, 5s(programmable)

Count Outputs

Relay 1 (in) & 2 (out)
Qty 2 solid state normally closed relay referenced to 0V
Indicators:

Configuration:

Using Set-up Module IWC2044 & Software ISU0004
via RS232 connection to a PC.

PC Compatibility: Windows 2000 or XP, Serial port

Power Supply Requirements:

Supply voltage:

10-28VDC, including ripple
Ripple: \approx 2Vpk-pk Typical Supply
Current: 85mA at 12V, 45mA at 24V

Limitation to Use:

The detector is designed for use in applications where two people are walking at a 'natural' distance. Performance may reduce if two people walk 'un-naturally' close together.

Mechanical:

Housing: White ABS / Polycarbonate
Dimensions: 111mm diameter x 50mm deep
Weight: 0.2kg

Mounting: Two fixing holes in base

Mounting Height and Count Area:

Recommended: 2.5 - 3.2m

Allowable: 2.2 - 3.5m (outside recommended height range, count accuracy may be reduced)

Mounting Height (m)	Count Area (m x m)
2.5	2.3 x 2.3
3.0	2.8 x 2.8
3.5	3.2 x 3.2

NB: Specifications subject to change without prior notice

About CENTAMAN

CENTAMAN Systems Pty is the exclusive distributor for some of the world's most prestigious entrance control brands that are used to protect leading corporations, governments, leisure and education facilities as well as retailers around the globe. The products highlighted here are just some of the options available that make up the CENTAMAN portfolio of entrance control solutions.

With over 14 years experience successfully delivering entrance control solution and over 40 staff and operates 5 offices throughout Australia and New Zealand CENTAMAN is the ideal choice of partner for all your entrance control requirements. CENTAMAN offers supply only to full turnkey installation projects and has a variety of flexible support and maintenance options to ensure the ongoing reliable operation of your entrance control solution all backed by a Sydney based 24/7 support telephone support helpline.

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