POLYMER OPTICS LTD™
intelligent engineering with light

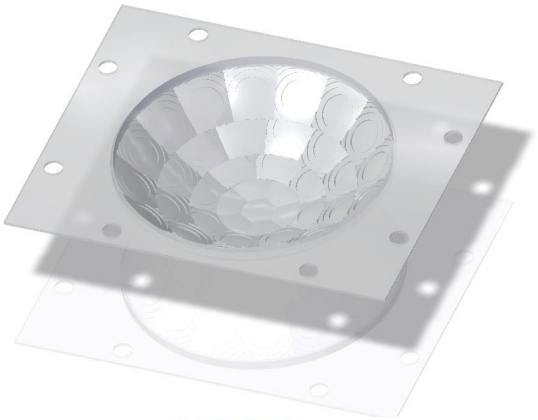
HIGH BAY LENS

FOR PIR MOTION SENSING

RECTANGULAR FLANGE VERSION

OVERVIEW

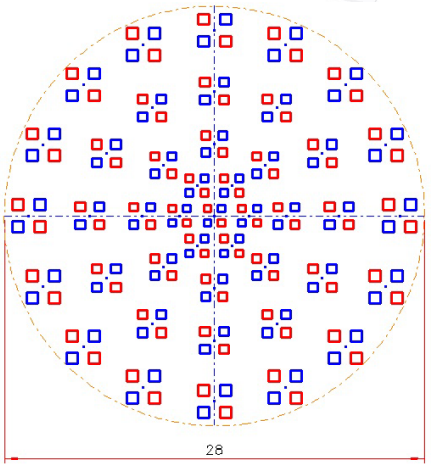
Ceiling mounted lens for high bay areas such as warehouses, distribution centres, factories and atriums. Designed to function with a single pyro but can be configured with three pyro's for additional sensitivity.



FEATURES

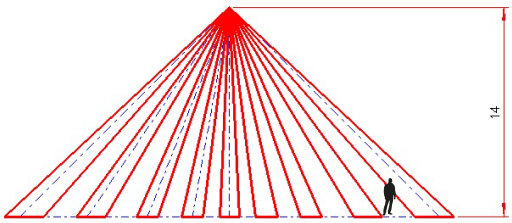
- Array of 43 Individual Fresnel Facets
- Up to 172 detection zones with a single qual pyro
- Up to 516 detection zones with a three pyro arrangement
- Aspheric Fresnels for better optical performance
- Designed using optical ray-tracing software
- Other flange shapes can be cropped from rectangle
- Available in natural and white colours

Part Number	Drawing	Colour
533C	A3-10533	Natural
533W	A3-10533	White



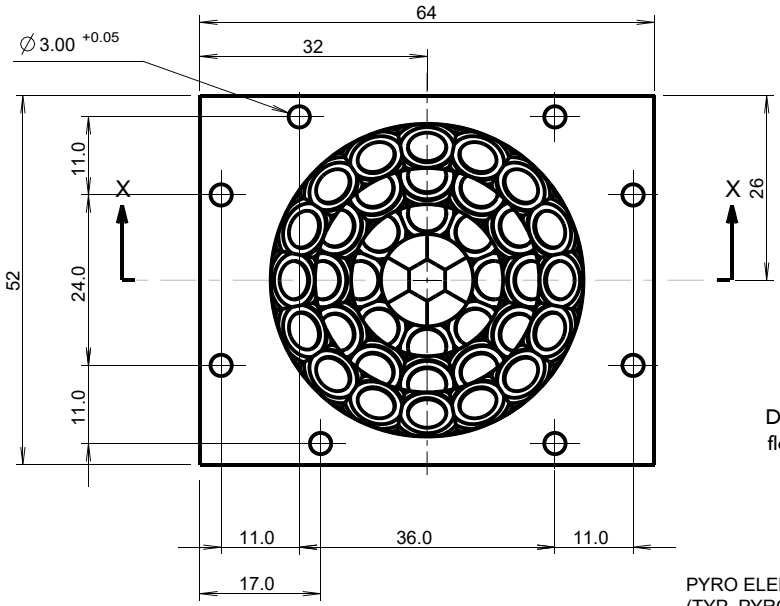
APPLICATIONS

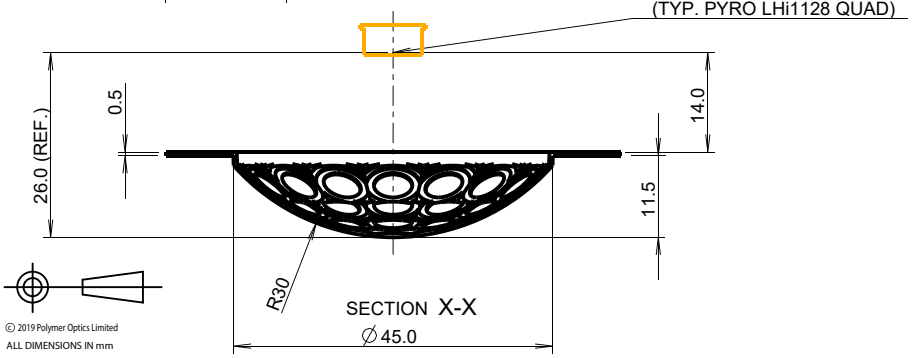
- PIR detection for warehouses, shops, offices and workshops
- Lighting and air conditioning control
- Alarms and security

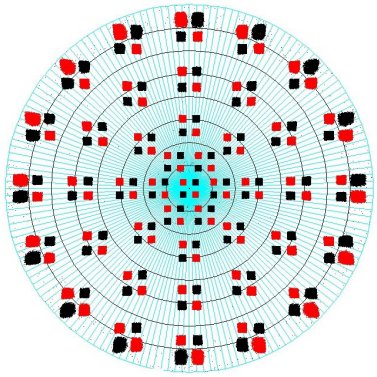


Theoretical zone plot. Optimum range is 12m.
Maximum Range 14m depending on electronic gain

Diagram shows theoretical zone plot for detector mounted 14m above floor. Mounting height can be reduced as required. The lens has a 1:1 aspect ratio, therefore when mounted at 12m height, the lens projects 43 zones into a 24m diameter floorspace.







Zone plot using optical ray-tracing software

Polymer Optics Ltd, The Hall, Priory Hill, Rugby Road, Wolston, Coventry, CV8 3FZ, England
Tel: +44 (0)2476 937394 www.polymer-optics.co.uk

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HIGH BAY LENS

FOR PIR MOTION SENSING

ROUND FLANGE VERSION

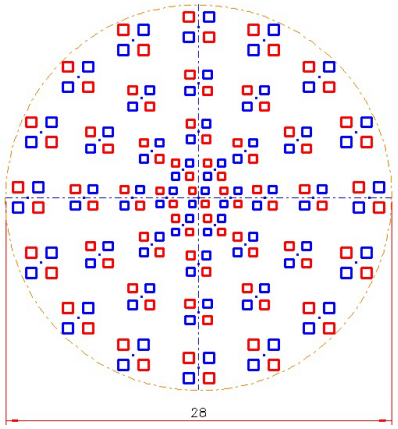
OVERVIEW

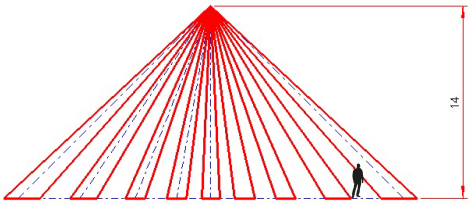
Ceiling mounted lens for high bay areas such as warehouses, distribution centres, factories and atriums. Designed to function with a single pyro but can be configured with three pyro's for additional sensitivity.

FEATURES

- Array of 43 Individual Fresnel Facets
- Up to 172 detection zones with a single qual pyro
- Up to 516 detection zones with a three pyro arrangement
- Aspheric Fresnels for better optical performance
- Designed using optical ray-tracing software
- Other flange shapes can be cropped from rectangle
- Available in natural and white colours

Part Number	Drawing	Colour
1260C	A3-11260	Natural
1260W	A3-11260	White



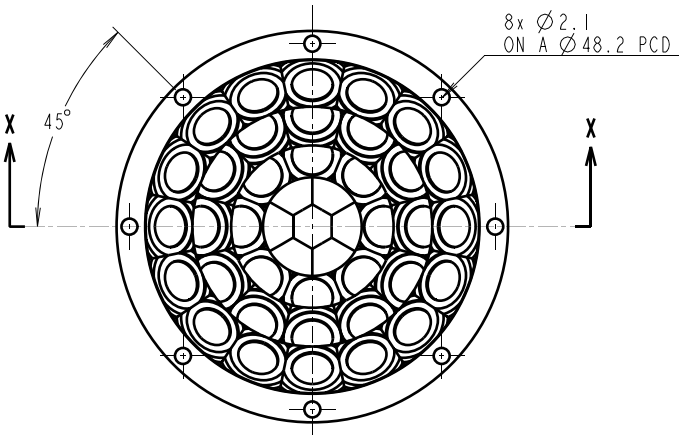


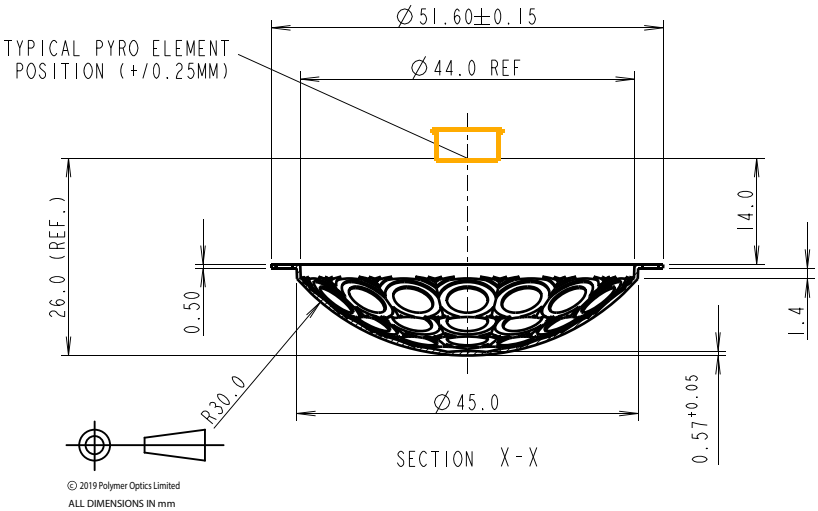
Theoretical zone plot. Optimum range is 12m.
Maximum Range 14m depending on electronic gain

Diagram shows theoretical zone plot for detector mounted 14m above floor. Mounting height can be reduced as required. The lens has a 1:1 aspect ratio, therefore when mounted at 12m height, the lens projects 43 zones into a 24m diameter floorspace.

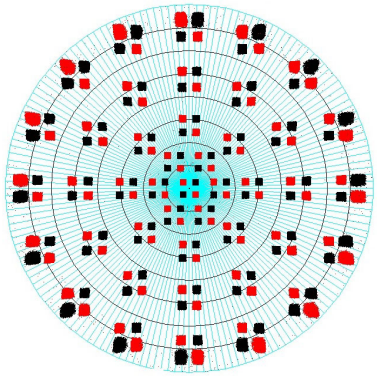
APPLICATIONS

- PIR detection for warehouses, shops, offices and workshops
- Lighting and air conditioning control
- Alarms and security





ALL DIMENSIONS IN mm



Zone plot using optical ray-tracing software

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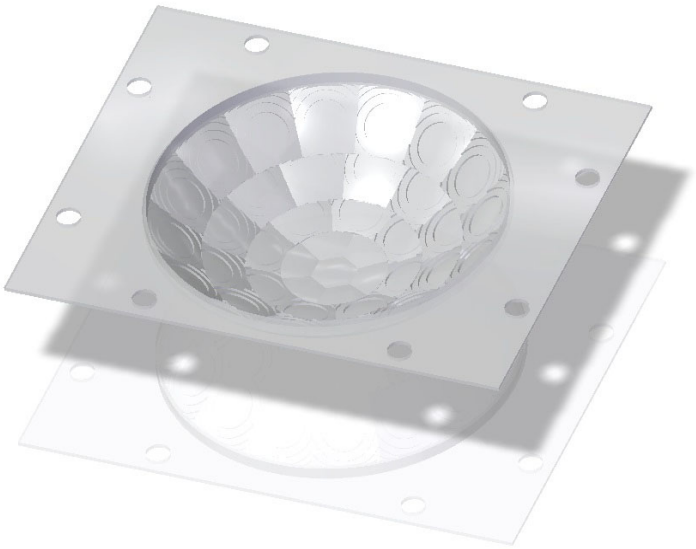
HIGH BAY LENS

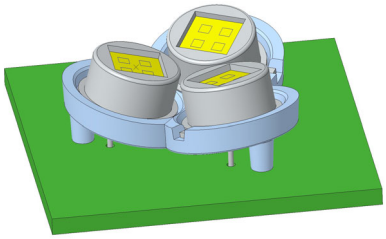
PIR lens for motion detection. For use in security or lighting control applications where there are relatively high ceilings.



3 PYRO MODE

To improve the density of the zone pattern, and hence to increase detection sensitivity, the High Bay lens can also be used in a 3 pyro configuration.

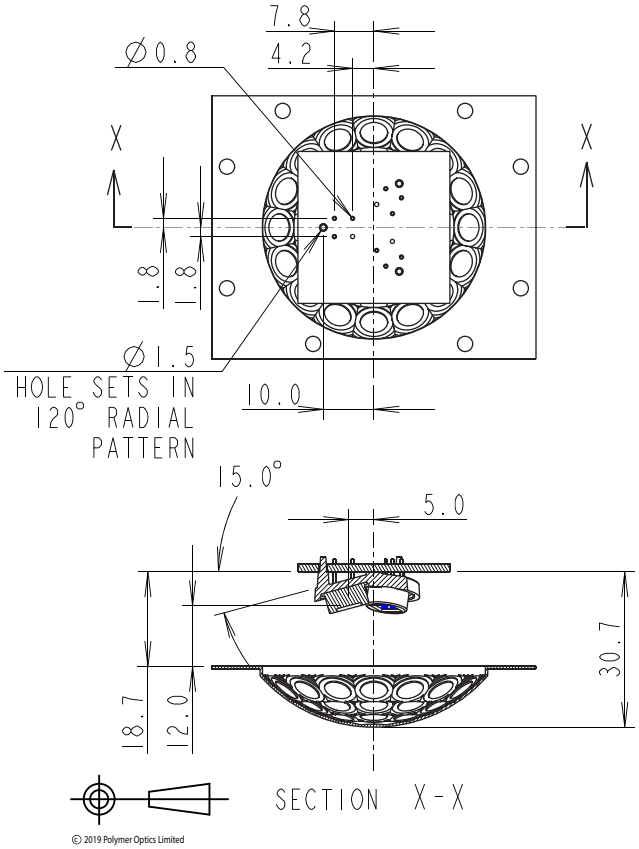
We recommend tilting the pyro's according to the pictures below. A pyro holder design is available to download from the POL website. It can be used to 3D print a prototype holder, or it can be used under licence to manufacture a plastic mould tool.



Note: Rectangular or Round Flange version can be used in 3-pyro configuration

APPLICATIONS

- Warehouses and factories
- Atriums
- Leisure centres, gyms, sports halls
- Street Lights, Car Parks



ALL DIMENSIONS IN mm

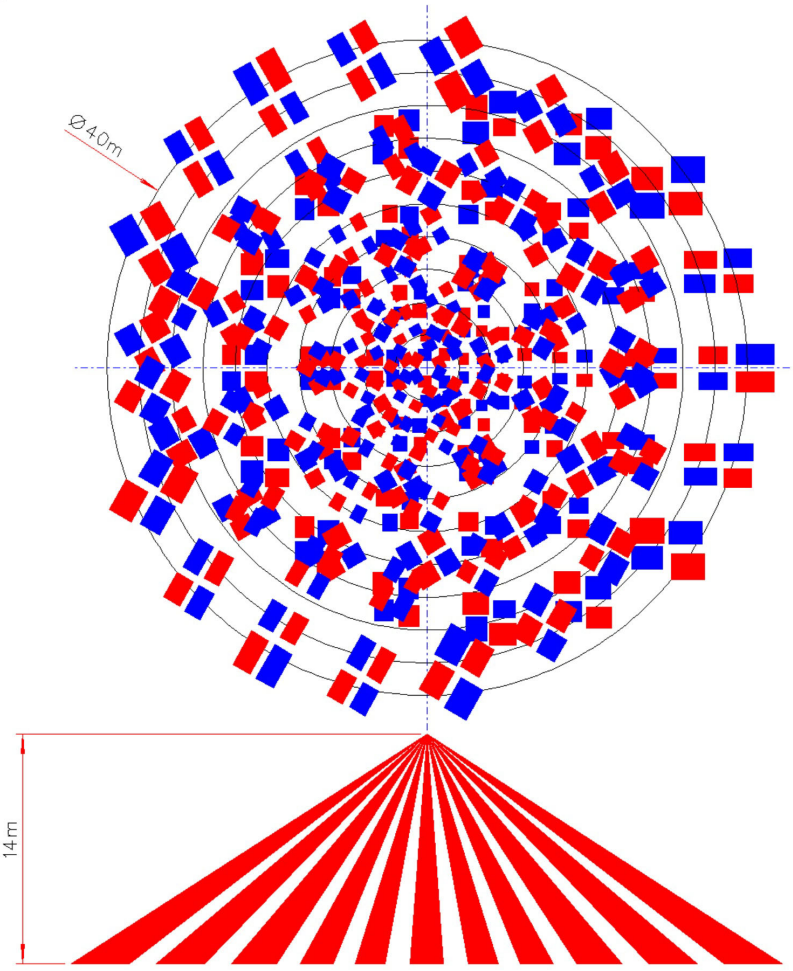


Diagram shows theoretical zone plot for detector mounted 14m above floor. Mounting height can be reduced as required. When used with a quad pyro the lens will project 516 individual detection zones within a 40m diameter circular area.