POLYMER OPTICS LTD
intelligent engineering with light

FLAT CAP LENS
CEILING 360

FOR PIR MOTION SENSING

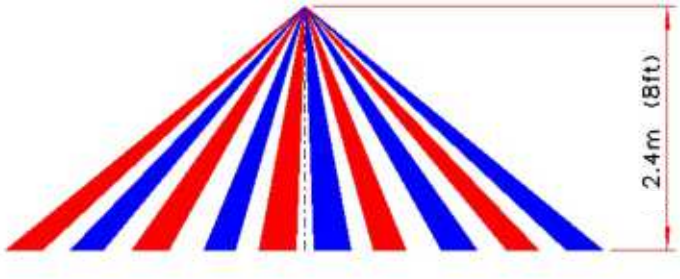
OVERVIEW

Motion detection lens for security and lighting applications. 360deg beam pattern with 100deg FOV within 6m diameter area. Lens can be flush mounted with product housing - ideal for devices where strong aesthetic appearance is important.



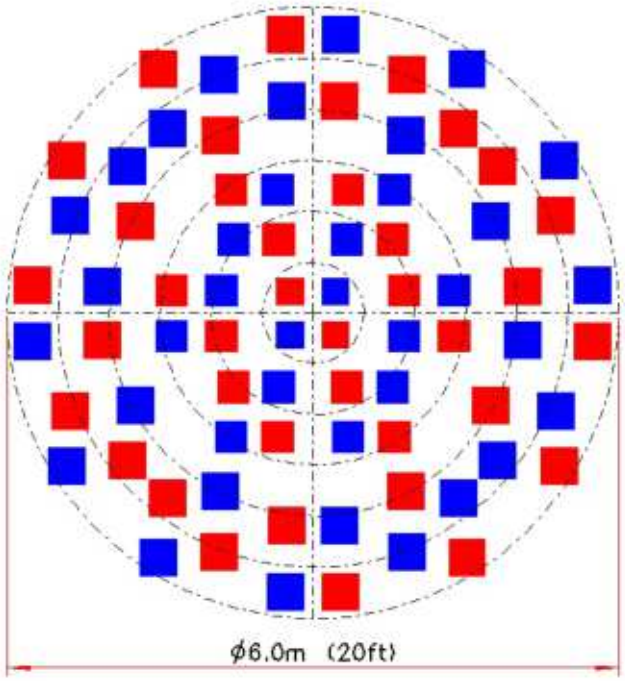
FEATURES

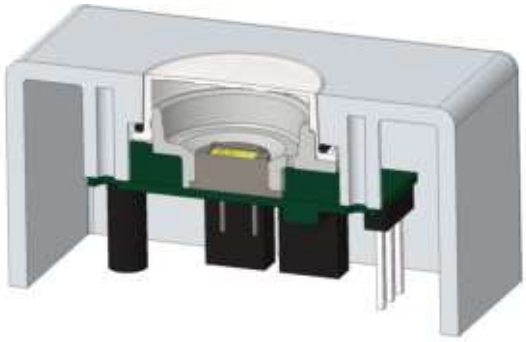
- Designed to press onto standard T05 pyro
- Fresnel lenses fo maximise IR collection
- Uses POL's unique free-form Fresnel system
- Designed using optical ray-tracing software
- Compact shape with clearance for pcb components
- Available in natural, white and black colours



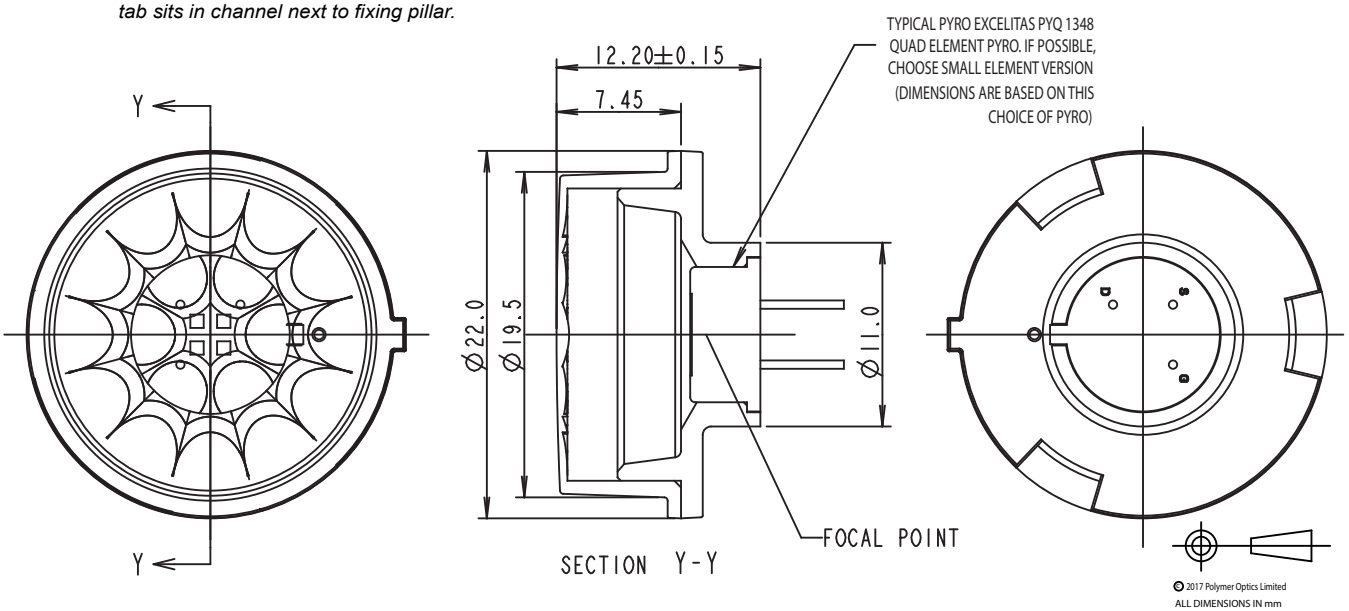
Part Number	Drawing	Colour
713-N	A3-10713	Natural
713-W	A3-10713	White
713-B	A3-10713	Black

Note: White material has 25% lower IR transmission than natural material.
Black material has 35% lower IR transmission than natural material.





Typical mounting method: 20x1mm o-ring stretched around lens flange. PCB screwed to housing via pillars. Orientation tab sits in channel next to fixing pillar.



© 2017 Polymer Optics Limited
ALL DIMENSIONS IN mm

Polymer Optics Ltd, The Hall, Priory Hill, Rugby Road, Wolston, Coventry, CV8 3FZ, England
Tel: 02476 937394 www.polymer-optics.co.uk

POLYMER OPTICS LTD™
intelligent engineering with light

CAP LENS RANGE

FOR PIR MOTION SENSING

FEATURES

- Designed to press onto standard T05 pyro
- Horizontal curtain and circular beam patterns
- Choice of profile shape to suit product styling
- Designed using optical ray-tracing software
- Compact shape with clearance for pcb components
- Available in natural, white and black colours



Dome Cap Lens HC



Dome Cap Lens 360



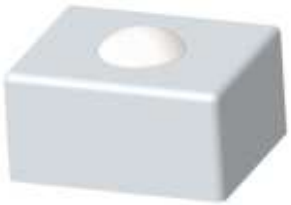
Flat Cap Lens HC

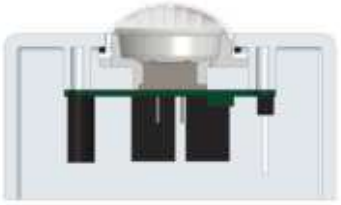


Flat Cap Lens 360

APPLICATIONS

- Office and household lighting control
- Motion detection for security applications
- Individual luminaire switching
- Fan and air conditioning control
- Control panel illumination for appliances
- Vending machines, ATM's, streetlights



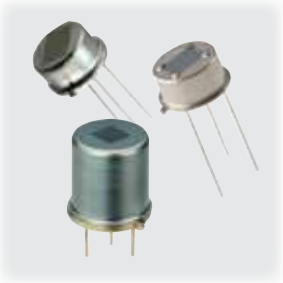


Lens pushes onto TO5 pyro. Slot in flange ensures correct orientation with pyro. Casing traps lens flange so that lens is held securely. 'O' ring can be used to seal. Lens has clearance for PCB components. Sealed lens environment prevents false detections from contamination and air movement. Indicator LED can project light through lens.



Low voltage sensor modules are available. Sensor modules have analogue pyro with switching circuit and sensitivity sdjustment. Can be combined with relay module for mains switching. Modules can be used for alarm activation or lighting.

Cap lenses can be ordered to fit most of the leading pyro-electric sensor brands such as Excelitas, Nicera, Murata and Panasonic. The lens presses onto the T05 cannister and is held at the correct focal distance.









Small and compact, these lenses are suitable for numerous security and lighting applications, in the office, or around the home. Available in two beam pattern versions, horizontal curtain (HC) and 360deg ceiling, there is a lens suitable for every application.

Polymer Optics Ltd, The Hall, Priory Hill, Rugby Road, Wolston, Coventry, CV8 3FZ, England
Tel: 02476 937394 www.polymer-optics.co.uk