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PRISMATIC SIGHT GLASSES

Moulded circular or linear prismatic windows are used as liquid level indicators by many industries. These include, medical, aircraft, aerospace and domestic applications. Glass types available are Soda lime and Borosilicate.

ASPHERIC

Fully Fire Polished or Part Fire Polished aspheric condenser lenses are available between 4mm and 125mm in diameter. Typical applications are in Light Beams, Photoelectric Sensors, Fibre Optic Display, Projection, Medical, Military and many others. Lenses can be supplied as standards or to your own design at low tooling cost. Glass Types are Optical Crown, coloured soda glass and Borosilicate.

MULTI-ELEMENT

Complex lens forms are achievable by Rod Moulding. Multi lens arrays are available incorporating many individual lenses within a one-piece moulding. The forms such arrays take can be circular, square or rectangular.

INDICATOR DOMES AND COLOURED GLASS

Clear or coloured domes can be offered for applications ranging from Electrical Switchgear to Liquid Level indicators. Dome can incorporate flanges to ease assembly. Glass types are Soda lime, Optical or Borosilicate heat resisting quality.

CONCAVE REFLECTORS

Fire Polished reflectors taking the form of Spherical, Ellipsoidal, Prismatic and Parabolic can be pressed and coated with a range of different finishes dependant upon application. Typical coatings are Aluminium and Dichroic. Application includes Projection, Medical, and Display etc.

PLANO AND BI CONVEX LENSES

This type of lens is highly suitable for moulding and offers considerable savings over the use of Ground and Polished components. Fire Polished condensers are ideal for light condensing and focusing applications. These applications include Photoelectric, Medical, Light Projection, Fibre Optic, and Military etc.

TOROIDAL LENSES

These parts are expensive to produce as ground and polished components and moulding by our Rod Process offers a lower cost option for this type of element.

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VIEWING WINDOWS

Complicated shapes can be generated by moulding with windows incorporating mounting flanges, recesses and cut outs all of which can be moulded features.

STANDARD TOOLING

Many stock tools can be offered. Please tell us your specification and we can advise if we have a suitable standard tool. These standard tools include Plano Convex, Bi Convex, Aspheric and Spherical Reflectors. If we cannot satisfy your need from existing tooling we can offer very low cost options for tooling to your own design.

PRISMS

The moulding of glass prisms allows for difficult and expensive shapes to be generated at a fraction of the cost of ground and polished parts. Prisms with Flat or Conical faces are offered. Application is generally in light bending or viewing applications, such as Display Lighting, Level Sensing and Fibre Optic Lighting.

GROUND & POLISHED COMPONENTS

The following are available as special production items and are offered to compliment the Fire Polished Products. PLANO CONVEX LENSES, ACHROMATS, PRISMS, MIRRORS, BI-CONVEX LENSES, DOUBLET AND TRIPLET LENSES, CONCAVE REFLECTORS, AND HEAT FILTERS.

If your need is for a high quality ground and polished optical component Bluebell Industries Ltd can assist our customers in sourcing any of the parts listed above. Please let us have your enquiry which will receive our urgent attention.