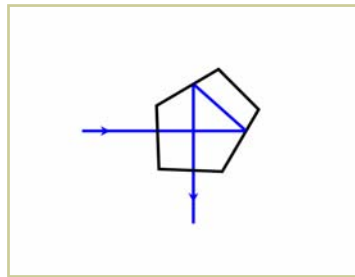


Penta-prisms



Penta-prisms are constant-deviation prisms. They produce a 270° beam deviation independent of the angle of incidence at the entrance face.

This property makes them invaluable alignment aids when it is necessary to define a right angle optically. A beam inci-



dent on one of the right angle faces is totally internally reflected at the two back faces to emerge at right angles to the direction of input.

The accuracy of these prisms is controlled by the precision of the prism angles. We offer two levels of accuracy having angular deviations of 3 arc minutes or 30 arc seconds.

Typical Specifications	
Material:	BK7
Surface flatness:	$\lambda/4$ @ 633 nm
Surface quality:	40/20
Angular deviation:	< 3 arcmin or < 30 arcsec
Dimensions:	+0.0 / -0.2 mm
Clear aperture:	> 85% of face
Optional coating - reflecting faces:	Ag + paint
- entrance and exit faces:	R < 0.5% per face

When the input is normal to the entrance face, total internal reflection occurs. However, in order to ensure correct operation over a wide range of incident angles it is preferable to coat the reflecting surfaces. We offer penta-prisms either uncoated or with the following combination of coatings:

Reflecting faces — internal silver protected with black paint.

Entrance and exit faces — single layer MgF_2 anti-reflection coating.

Material used is BK7 ($n_d = 1.517$)

We can supply penta-prisms in the following standard face sizes: 10, 12.7, 15, 20, 25.4, 40 mm.

Other sizes will be considered on special request.

To request a quote or to order, please specify:

Quantity — Face Size — Angular Deviation — Coating (if required)

Optarius

PO Box 2271
Malmesbury SN16 9FA
United Kingdom

Optical Components

Phone: +44 1666 575185
Fax: +44 1666 577424
Email: optarius@optarius.com
Web: www.optarius.com

For a quotation — please phone, fax or email us with details of your requirements.