

## Right-Angle Prisms

Right-angle prisms can be used to direct a beam of light at 90 degrees from the incident beam or to retroreflect a beam. A right-angle prism may also be used as a front surface mirror.

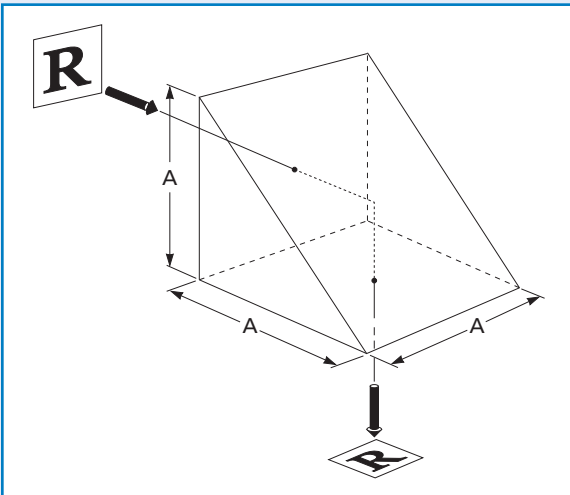
- High transmission can be achieved, using the hypotenuse face in TIR, with an antireflection coating on the entrance and exit faces.
- The prism can be used as an internal or external mirror by specifying a metallic coating on the hypotenuse.
- The prism can be used as a retroreflector, using the entrance and exit faces in TIR with an antireflection coating on the hypotenuse face.

Most of the CVI Melles Griot coatings can be applied to prism surfaces.

### APPLICATION NOTE

#### Right-Angle Prism as a Mirror (90° Bending)

The hypotenuse is coated with protected aluminum (90° Bending) and an overcoat of black paint is applied. The paint is soluble in acetone for easy removal.



#### Right-Angle Prism as a Retroreflector (180° Folding)

The two legs are coated with a reflective coating. An antireflection coating on the hypotenuse improves the efficiency of the prism as a retroreflector.

