

## Target Approach

**How the target approaches the sensor matters as well.** When an object comes at the sensor straight on, that's an *axial approach*. With this type of approach, you will need to protect the sensor physically. Allow for 25% overtravel.

Hysteresis tends to be greater for an axial approach than a lateral approach.

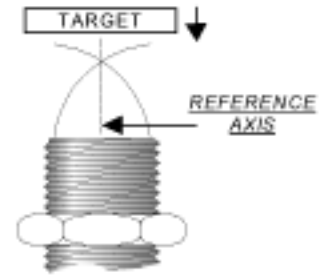


FIGURE 53: AXIAL APPROACH

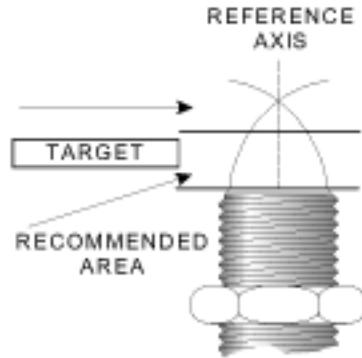


FIGURE 54: LATERAL APPROACH

On a slide-by, or *lateral approach*, the target approaches the center axis of the sensing field from the side.

The target should not pass closer than the basic tolerance built into the machine design. Targets bumping into your sensor are a sure guarantee of eventual poor sensor performance.

**For both approach types, make sure the target passes not more than 75% of the sensing distance from the sensor face.** It is in this "Tip" area that variations in the sensing range occur.