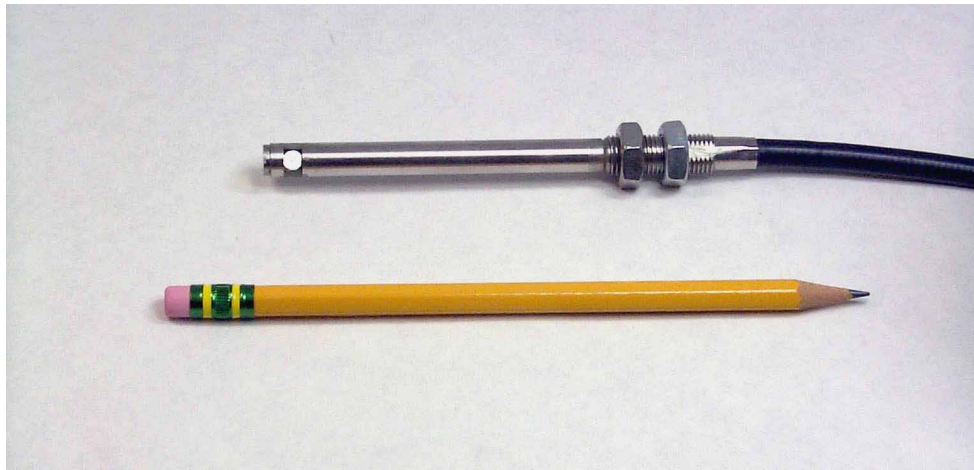




OPTION S - SIDE VIEWING PROBES

Side-viewing probes utilize a right angle prism set over the fiber bundle.

Side viewing probes are used for sensing in confined areas where limited accessibility prohibits installation of standard end viewing or right angle tips.



Option S is available for D sensors in the following sizes:

D63 - D100, D169 - D171

- Models D63 thru D100 are packaged in a 5/32" diameter tip.
- Models D169 thru D171 are packaged in a 5/16" diameter tip.

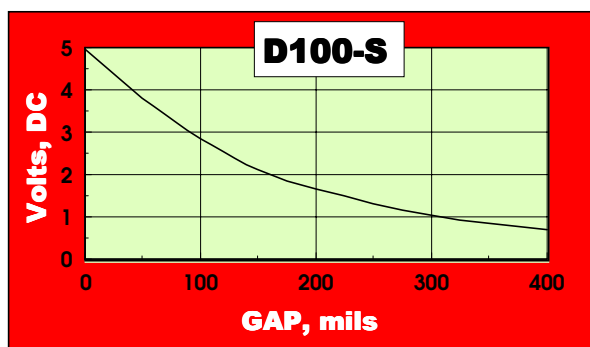
The tip diameters are fixed sizes for these probes. The lengths and installation requirements vary from application to application. Dialog with the factory is required to finalize any design.

RANGES OF OPERATION

With *end-viewing probes*, the sensor tip can be placed flush against the target surface. That permits operation on the near side, optical peak and far side regions of D models.

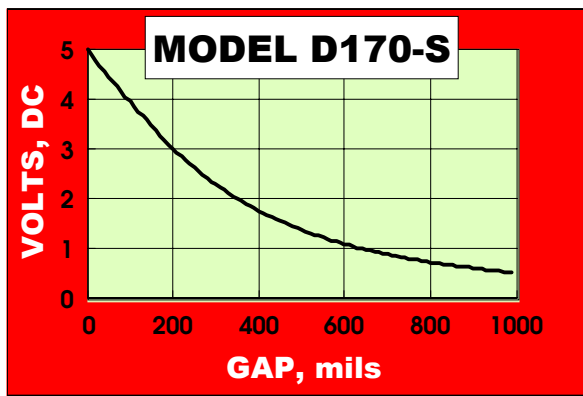
With *side-viewing probes*, a prism is placed between the fiberoptics and the target, thereby preventing complete closure of the optical circuits. The near side region and the optical peak are truncated off the sensor's operating range, leaving **only the far side region** of operation. Two examples are shown below.

Whereas end-viewing probes yield zero output volts when touching a target surface, side-viewing probes reach their full scale output when in contact. Side-viewing probes are set up and calibrated by placing them into contact with the target surface and setting the output to full scale.



D100-S Typical Linear Range 0 - 50 mils

(Std D100 Linear Range 30 - 130 mils)



D170-S Linear Range 0 - 140 mils

(Std D170 Linear Range 65 - 265 mils)