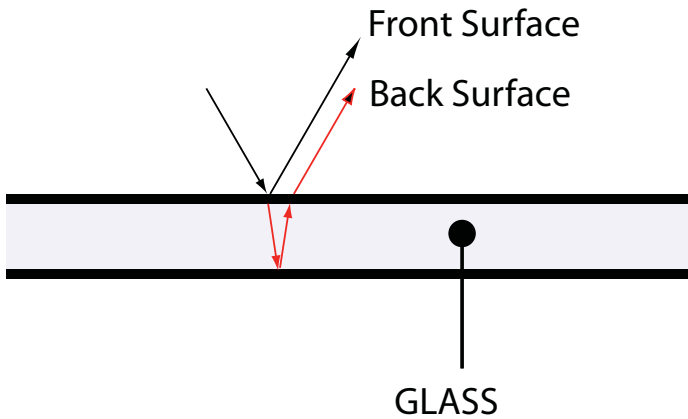


Measurements To Glass Targets



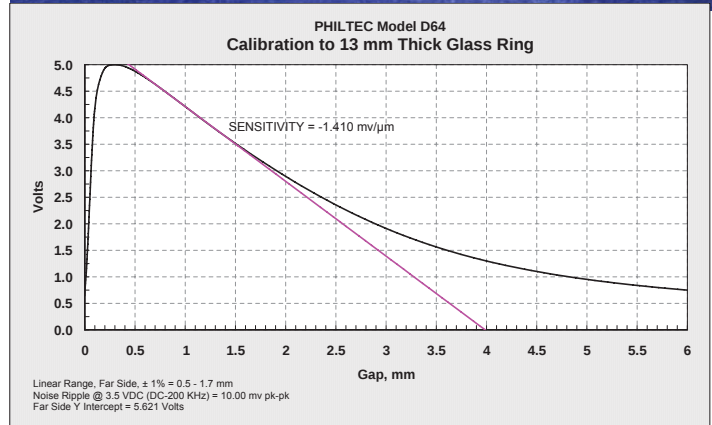
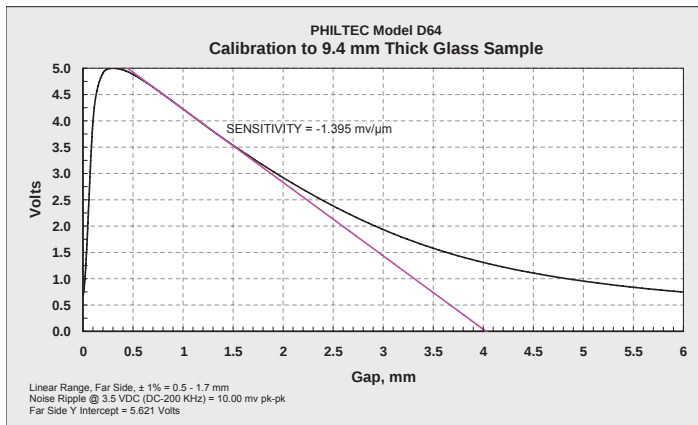
Philtec sensors are retro-reflective type probes: they emit light which reflects off targets and then returns to the probe tips for signal processing. With opaque targets, light reflects from the front surface. With glass targets light is reflected from the front surface and from the back surface. When the glass is thin, these two reflected signals are of approximately equal strength. ***With thick glass, the amplitude of the back side reflection is diminished significantly, so the resulting signal is mainly comprised of the front side reflection.***

EXAMPLE

Two glass targets are shown here:

- a 13 mm thick ring with 189 mm O.D.
- a 9.4 mm thick glass flat

Gap calibrations to these 2 glasses were made using a Philtec model D64 sensor. The calibration charts show virtually no difference between the 2 samples.



PHILTEC

Fiberoptic Sensors for the Measurement of Distance, Displacement and Vibration