

# Contact Surface Sensor - 04

## Versatile & Reliable Surface Sensing

**Locating the substrate surface** is a very critical aspect of precision dispensing. For some applications the needle must be positioned 0.0010" to 0.0015" (25 to 38 $\mu$ ) above the surface. Contact surface sensing is the most versatile and reliable method of surface sensing.

- **Contact surface sensor** is not subject to surface textures or colors like a laser. A laser's repeatability is reliant on the consistency of a reflected beam; surface textures and colors affect that reflectivity, altering the laser feedback from substrate type to substrate type.
- **Probe tip** has a substrate contact area of 0.015" (380 $\mu$ ) in diameter. The tip may be customized for specific applications, either with a larger or smaller diameter probe.
- **Cycle time** for a surface sense is approximately one (1) second. The cycle time is the same for all substrates.
- **Design** incorporates a linear slide for smooth sensor tip extension.
- **Sensor** is isolated from moving parts
- **Continuous testing** has yielded repeatability of  $\pm 0.0003$ " ( $\pm 7$  micron) on all surfaces.

