

Needle Sensor Module

Automatic Compensation For Needle Changes

Features and Benefits

- Ability to change needle sizes or valves without program adjustment or reprogramming
- Automatic compensation for bent needles
- XYZ repeatability of ± 0.002 in.
- Easy mounting and installation



The Nordson ASYMTEK Needle Sensor module reduces manual adjustment time and minimizes operator error. Needle positions shift after changeover. Bent needles can be caused by unpredictable obstacles like hanging cables or when applying material close to components that were angled during an upstream process.

In the Select Coat® SL-940 conformal coating system the needle position can be verified as part of the process controls. The Needle Sensor module detects the needle tip in X and Y direction, as well as the Z positioning. Easy Coat® software automatically corrects the subsequent conformal coating production to match the detected needle tip location. If a needle is detected outside of the process limits, the operator is notified to intervene.

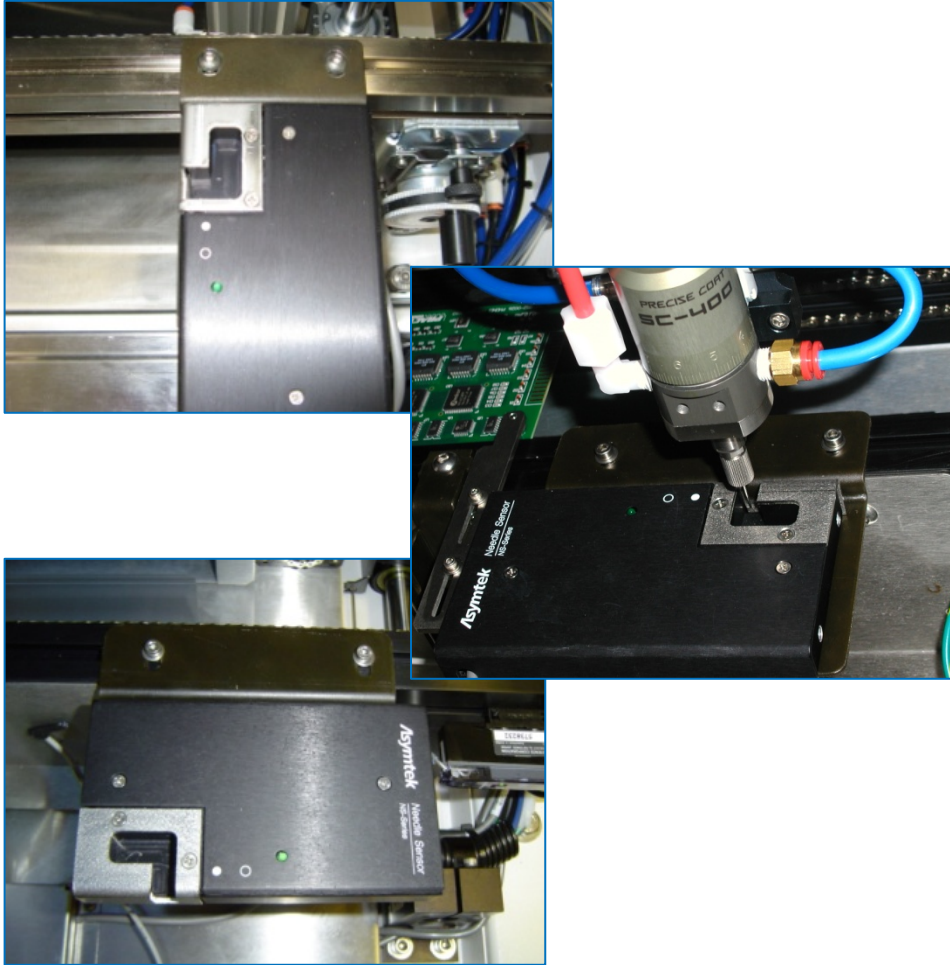
The programmer has full control to define intervals and/or conditions that trigger execution of the verification routine. For example, this can be required at the beginning of production or based on a timer or specific count of coated products. In addition, it can also be initiated depending on other events or process controls on the SL-940 coating system.

Needle Sensor Module Specifications

Minimum needle length:	0.125 in.
Minimum needle diameter:	30 gage
Accuracy:	± 0.005 in.
Repeatability:	± 0.002 in.

NOTE: The Needle sensor does not compensate for XYZ changes in needle position due to tolerances in parts, tooling or fixtures.

Top Views



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