

EcoBead™ Inspect

Adhesive Savings and Inspection

Reach your continuous improvement goals through adhesive savings and inspection, all with the simple turn of a dial.

Benefits

- Adhesive savings through stitching without loss of bond strength or pattern accuracy
- Reduced down time and rework through adhesive inspection
- No PLC programming required
- Production analysis possible with data over wifi

Features

- Adhesive pattern stitching
- Adhesive pattern inspection
- Self-teaching
- Automatic line speed detection
- Adjustable inspection tolerance
- Configurable outputs
- Easy drop-in installation
- Simple rotary switch interface
- Wi-Fi interface
- Multicolored status LEDs



Economical and easy to use, EcoBead™ Inspect lets you dispense short, intermittent bead patterns and inspect the placement of adhesive on a surface. The need to reprogram your PLC or to add conventional pattern controllers, encoders and sensors to your line is eliminated.

The EcoBead Inspect is easy to install and connects directly to a Saturn® Platinum (SP) solenoid valve that provides air to a MiniBlue® II adhesive applicator. It “learns” an incoming applicator pattern and implements a stitched pattern to realize significant glue savings without compromising overall pattern accuracy or bond strength.

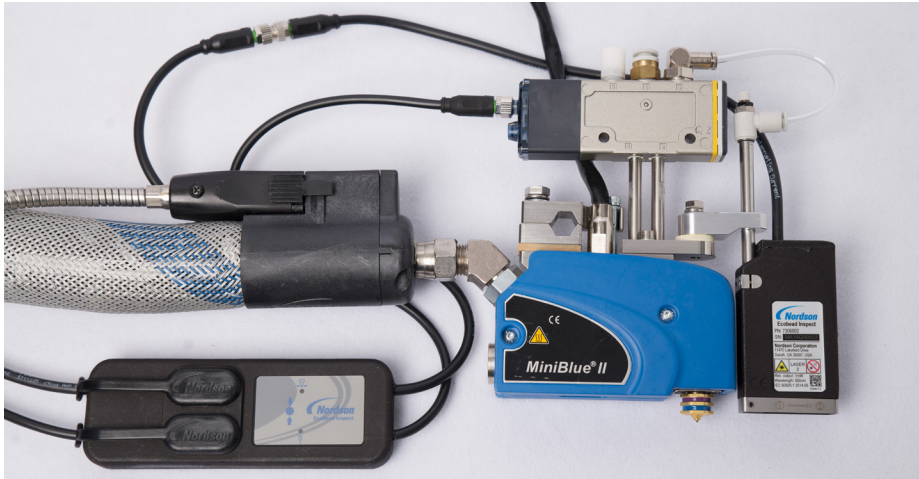
Using a sensor mounted to the front of the applicator, it verifies glue placement starting from the first product with no complicated programming.

The EcoBead Inspect can interface with a parent machine, and the output signal can be used to stop the line, illuminate a light tower, sound a horn or eject a product if your parameters for adhesive application are not met.

Adhesive savings can range from 30 percent to over 50 percent. Your savings will depend on your application.



EcoBead Inspect glue Savings and Verification



Specifications

Maximum Operating Frequency:	150 Hz (9,000 cycles per minute)
Setting resolution of on-time pulse:	1 ms (1ms - 1 sec, in 1 ms steps)
Supply Voltage:	20-30VDC
Input Signal Voltage:	24VDC nominal (spiked/boosted input not supported)
Output Signal Voltage:	24VDC switched, matched to MiniBlue II SP solenoid
Applicator Capacity:	One pattern control input; One solenoid output
Applicator Connection:	In-line connection using MiniBlue II connector
Sensor Capacity:	One EcoBead Inspect sensor
Input Capacity:	One 24VDC alarm reset input
Output Capacity:	Two configurable NPN outputs
Enclosure Protection Class:	IP54
Approvals:	CE FCC Part 15b, IEC 60825-1:2014
Operating Temperature:	5 - 60° C (40 - 140° F), 25 - 93% relative humidity

EcoBead Inspect Saving Programs

- 40 preset programs
- Settings for 30, 40, 50 or 60%
- 10 pattern selections for each savings setting
- 20 customizable programs for adhesive savings
- All programs saved during power down condition

EcoBead Inspect Inspection Programs

- 10 preset tolerance programs
- 1 customizable tolerance program via Wi-Fi connection
- 2 configurable outputs for interface to parent machine
- 10 selectable output configurations for interface to parent machine



For more information, speak with your Nordson representative or contact your Nordson regional office.

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