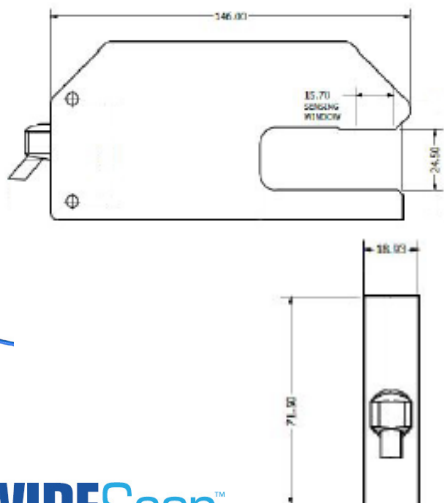


LPA56B Laser Profile Analysis

For Strip and Seal Inspection



For Integration on Automatic Wire Processing Machines



LPA56B

WIREScan™

The WireScan 8-Series Laser Profile Analyzer is a compact optical sensor for strip and seal inspection. The unit projects a 16mm sensing window. As the wire passes through the sensing window, an image of the wire is captured with a resolution of 0.12 mm.

Using OES's proven algorithms, the image profile of each wire sample is compared with the "learned" standard profile image and a determination is made if the part is a "pass" or "fail".

About OES Technologies

OES Technologies products and technologies are developed specifically for the wire processing industry to monitor and inspect 100% of parts produced during the manufacturing process and prevent part defects from entering the supply chain. OES's dedication to innovation enables them to deliver a steady stream of cutting edge technologies that meet the exacting demands of this ever changing market.

www.oestechnologies.com

technologies@oes-inc.com



OES Technologies

**4056 Blakie Road
London Ontario,
Canada
N6L 1P7**

Quick Facts

Model	Application
LPA56B	Automatic Machine
Voltage Supply	24VDC @ 200mA +/- 10%
Discrete Inputs (2)	24VDC
Electro-Mechanical Output (2)	24 VDC @ 0.5A - Dry contact
Serial Communication	RS232
Laser	
Wavelength Class	658nm 2M
Dynamic Performance	
Inspection Window Length	16mm (0.63")
Resolution - Length	0.12mm (0.047")
Resolution - Width	0.192 mm @ 10 meters/second 0.038mm @ 2meters/second
Wire Speed Range	0.5 - 14 Meters / Second
Wire & Seal Size	
Typical Wire Size	1.31 mm ² - 0.05mm ² (16-30 AWG)
Seal Diameter Range	2-10mm (0.079"-0.390")
Physical	
Dimensions	18.93 x 146 x 71.5mm 0.75" x 5.75" x 2.81

Non-Contact

- Dynamic optical sensor inspects for wire strip and/or seal defects
- High resolution image profile captured, analyzed and compared to learned reference

Strip Inspection

- Detects common strip defects -high/low insulation shoulder, pulled or splayed strands, and conductor mass



Pull Strand Error

Traceability

- Data logging feature for 100% data traceability

Machine Integration

- Designed for integration onto existing and new wire processing equipment

Applications

- Automated wire processing applications requiring 100% assurance of wire strip and seal insertion quality

Seal Insert Inspection

- Detects common seal insertion defects - missing/re-verses/skewed seal, and seal position



Seal Position Error

WireScan Software

- Operator interface software for production, configuration and setup, and data logging

Patents

us 6,496,271 81

us 6,885,463 82

us 7,719,695 82