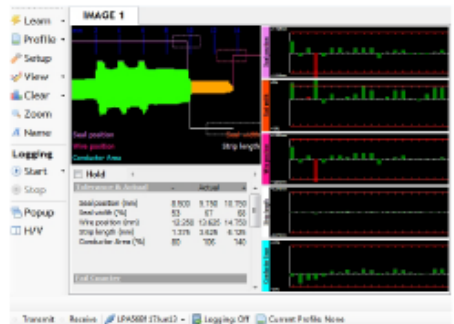


## LPA56B Laser Profile Analysis For Strip and Seal Inspection



For Integration on Automatic Wire  
Processing Machines

## 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-versed/skewed seal, and seal position



Seal Position Error

## WireScan Software

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

### Patents

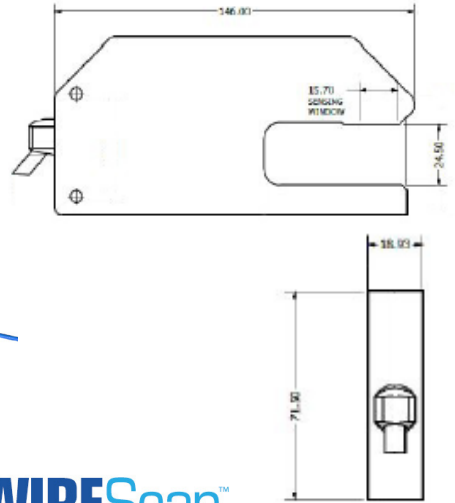
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us 6,885,463 82

us 7,719,695 82

# Quick Facts

<b>Model</b>	<b>Application</b>
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
<b>Laser</b>	
Wavelength Class	658nm 2M
<b>Dynamic Performance</b>	
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
<b>Wire &amp; Seal Size</b>	
Typical Wire Size	1.31 mm <sup>2</sup> - 0.05mm <sup>2</sup> (16-30 AWG)
Seal Diameter Range	2-10mm (0.079"-0.390")
<b>Physical</b>	
Dimensions	18.93 x 146 x 71.5mm 0.75" x 5.75" x 2.81



**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.

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