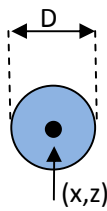# Lucana M Wire Sensor

- The Lucana M Wire Sensor can measure the diameter of a wire. Our innovation allows Lucana M Wire to perform measurements automatically without calibration, setup, or programming.

Measures Diameter

D

(x,z)

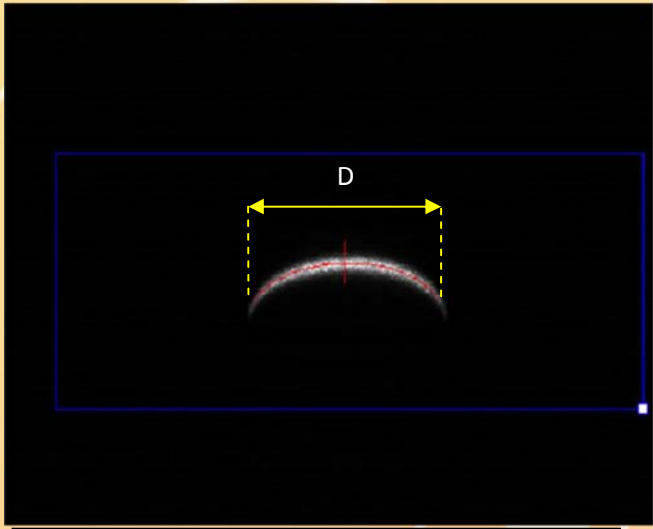NO PROGRAMMING   NO CALIBRATION

- Cost Effective
- Front Measurement
- No Part Enclosure
- Handheld or Attached
- Measures wire diameter
- Measures on the Fly

Lucana M Wire Sensor

User Interface

Operation

| Start | Once | Save Image |

Stop

Calc. Time: 16 ms
Total: 110 ms

Continuous Measurement, single measurement and time

Data Logging

Part List: part1

Enable Logging ☐ Add Delete

Data Logging to local or network drive with ability to specify a tag such as part list

Measurements

X Cent Pos	0.0320	in
Z Cent Pos	3.7072	in
Diameter	0.7585	in

Change Units to: MM

Measurement in millimeter or inches

Tolerances

Max X Pos	0.454331	in
Min X Pos	0	in
Max Z Pos	4	in
Min Z Pos	0	in
Max Diameter	0.772	in
Min Diameter	0.752	in

Apply

Tolerance setting for pass/fail output to digital I/O (Optologic) or set flag in communication. Change up to eight different tolerances per model.

Transfer/Trigger

Enable I/O ☑   Trigger I/O ☐
Trigger UDP ☐   Trigger TCP/IP ☐

Communications TCP/IP, UDP, and I/O (Optologic)

Exposure Control

45   Apply

Parameters

Edge Strength 20 Apply

Control to accommodate different surface reflectance

Expected Value

0

Lock

RESET Unlock

Help

This is the user interface for the Lucana M Wire Sensor measuring the diameter of the wire.The user can view or send the measurements in millimeters or inches as well as setting limits for the measurements. The data can be sent to another device using UDP, TCP/IP protocol, and log the data locally or on any network device.

Lucana M Wire Sensor

Specifications

Measurements	Wire Diameter
Resolution	
On Center	± 0.076 mm / 0.003 in
Within Box	± 0.127 mm / 0.005 in
Nominal Diameter range:	47 mm / 1.85 in
Nominal Standoff distance	85 mm / 3.35 in
Output:	UPD, TCP/IP, Digital I/O Data Logging
Dimension	
Sensor	(w x h x d) 25.4 x 25.4 x 177.8 mm, 2 x 2 x 7 in
Processor	(w x h x d) 166 x 48 x 157 mm, 6.5 x 1.9 x 6.2 in
Input voltage	12V
Input current	5A
Environmental	
Storage Temperature	-10° C to $+70^{o}$ C
Operating Temperature	$+5^{o}$ C to + 50° C