

PULCOM opto 30A/60B

Non-Contact Laser Outer Diameter Measuring Instruments



■ Features

Multi-Point/Multi-Item Measurement

Simultaneous measurement and judgment of four items at two locations can be performed.

Ideal for Centerless Grinder

The edge of the workpiece that is continuously fed is automatically detected, facilitating automatic control of the measurement timing.

Quick Response / High Precision

The provision of an 18-surface polygon scanner enables 1,500 scans to be performed per second, achieving high-precision measurements in a very short time.

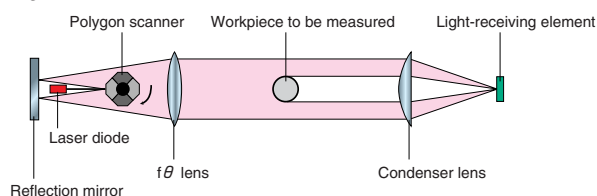
Error Removal Filter

The provision of a dedicated digital signal processor-based error removal filter enables data errors due to water drops, foreign matter or scratches on the workpiece to be removed, enhancing data precision.

■ Principle

The laser beam emitted from the semiconductor laser is scanned by the polygon scanner and converted into parallel scanning light by the $f\theta$ lens after it is reflected by the reflection mirror.

This light is condensed after the workpiece is scanned and converted into an electrical signal. The workpiece diameter is calculated by measuring the dark time.



Specifications

Set Model	Opto 30A-600	Opto 60B-600	
Model	Measuring unit	E-LH-S30A	E-LH-S60B
	Control unit	E-LC-S600	
Measuring range	0.3 – 30 mm	0.6 – 60 mm	
Light source	Red semiconductor laser (670 nm)		
Number of laser scans	1,500 times/second		
Laser scanning rate	100 m/s	200 m/s	
Min. display value	Select: 0.01 μm , 0.1 μm or 1 μm		
Input/output connector (including options)	Control I/O (Select individual judgment output or BCD output), RS232C, analog output		
Pass/fail judgment signal	Max. 20 ranks		
Number of measuring heads	1		
Usage temperature range	0 – 40°C		
Usage humidity range	90% or less		
Power source	AC 85 – 250 V, 50/60 Hz		
Power consumption	25 VA		
Weight	Measuring unit	3.2 kg	5.5 kg
	Control unit	4.5 kg	

