

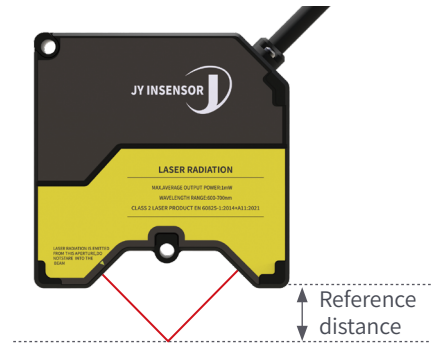


# Laser Displacement Sensor

## INTRODUCTION TO INTELLIGENT SENSOR

### Product Overview

The JPK Series is a non-contact, ultra-high-speed, ultra-high-precision laser displacement sensor. The flagship JPK002T offers a 15 mm reference distance and 10 nm repeatability, designed for high-demand inspections under stable conditions — providing core thickness and flatness measurement solutions for precision electronics, photovoltaics, and high-precision machining.



### Technical Advantage



#### Ultra-High-Speed Scanning

Meets the demands of high-speed inline inspection



#### Ultra-High Precision

10 nm repeatability  
Faithfully captures target detail



#### Non-Contact Measurement

Non-contact, no target damage  
Ideal for precision inspection



#### Material Versatility

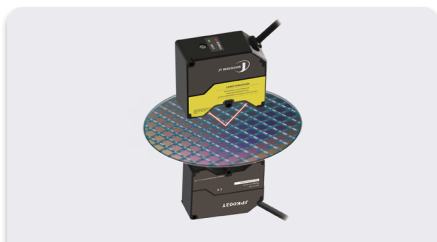
Unaffected by color or gloss  
Stable measurement

### Application Scenarios



#### Runout Measurement

Precision machining & disc runout measurement



#### Thickness Measurement

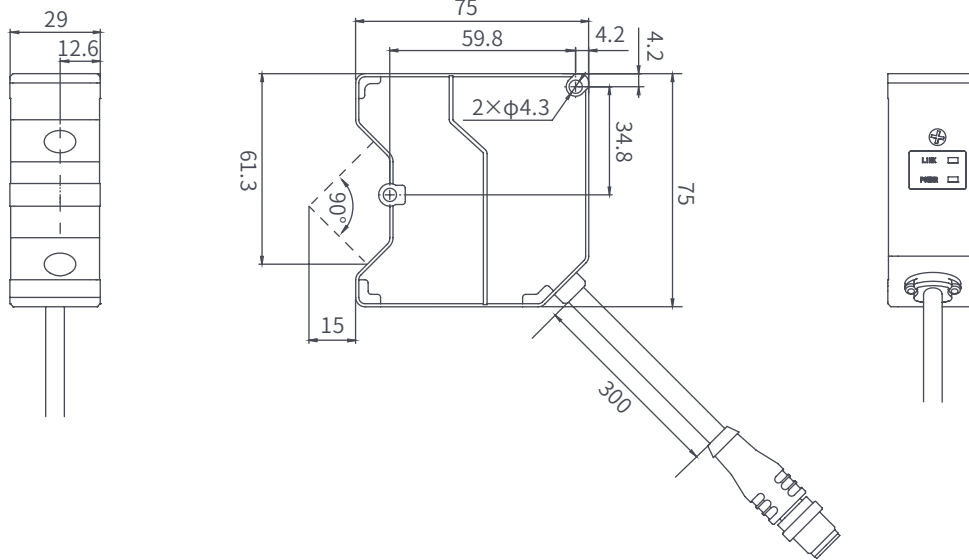
Photovoltaic wafer measurement  
Li-ion battery electrode measurement



#### Warpage & Flatness

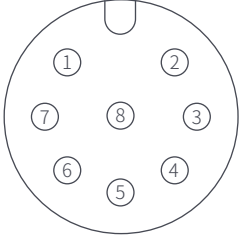
Glass panel warpage, flatness & thickness measurement

## Dimensions Diagram



【Unit:mm】

## Pin Arrangement

Aviation connector pin arrangement	Pin	Color	Function
 <p>M12 Connector 8-pin, A-Code</p>	1	Pink	Input (MF) / RS485+
	2	Black	0 V
	3	Red	+Ub
	4	White	TxD-
	5	Blue	RxD+
	6	Green	TxD+
	7	Yellow	Input (MF) / RS485-
	8	Brown	RxD-

## Performance Specifications

Model	JPK002T	
Reference Distance	15 mm	
Measuring Range	14-16 mm	
Repeatability	10 nm	
Linearity	< ±0.05 % MR	
Voltage Range	11-30 VDC	
External Input	Data mode, laser mode, zero reset, etc.	
Communication Interface	100BASE-TX	
Measuring Rate	Up to 100 kHz (with ROI enabled)	
Laser	Wavelength	Red laser (658 nm)
	Class	Class2 EN:60825-1:2014+A11:2021
Temperature Range	Storage	-20 ~ +70 ° C (No condensation)
	Work	0 ~ +50 ° C (No condensation)
Weight	Approx. 232 g	
Display	LED indicator × 2	
Protection Class	IP67	