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production of probity

Integrated tilt sensor ST-3100



Precision measurement is not just about removing variability,
it is also opening up new possibilities.

What's background for then?

Why is it necessary to need Integrated Displacement Sensor?

To say "autocollimator", Not so long ago, A think it have an image of BIG and Heavy, difficult. As result, It was difficult and install in machine and Handler.

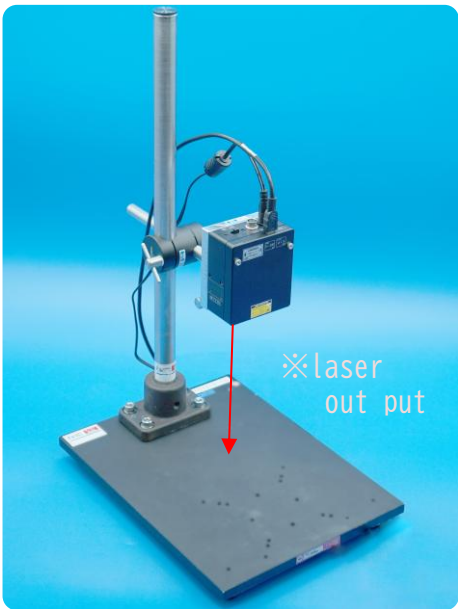
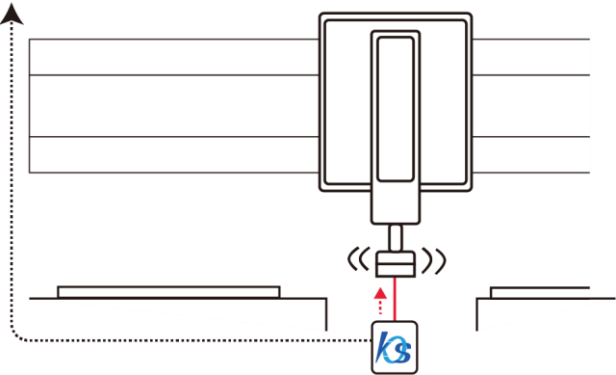
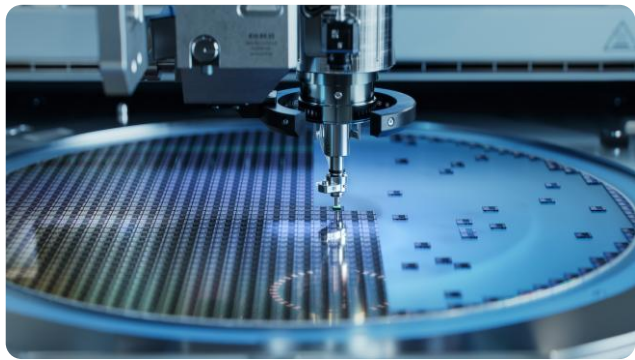
Katsura Opto Systems enable to announce that is more Small, more Intelligent, High Performance, and enable to "autocollimator" of install in Machin or Handler.

Features and Innovation technology

- ①Small, Smart.
- ②Integrated sensor and controller.
- ③Inclination measurement $\pm 54\text{min}$, High-speed measurement.

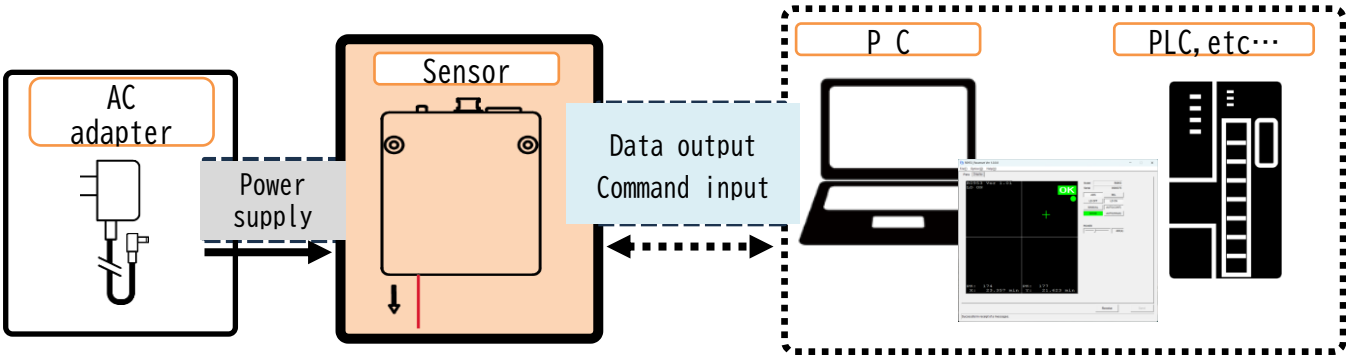


Application sample



Power and communication cable connect only.

Configuration

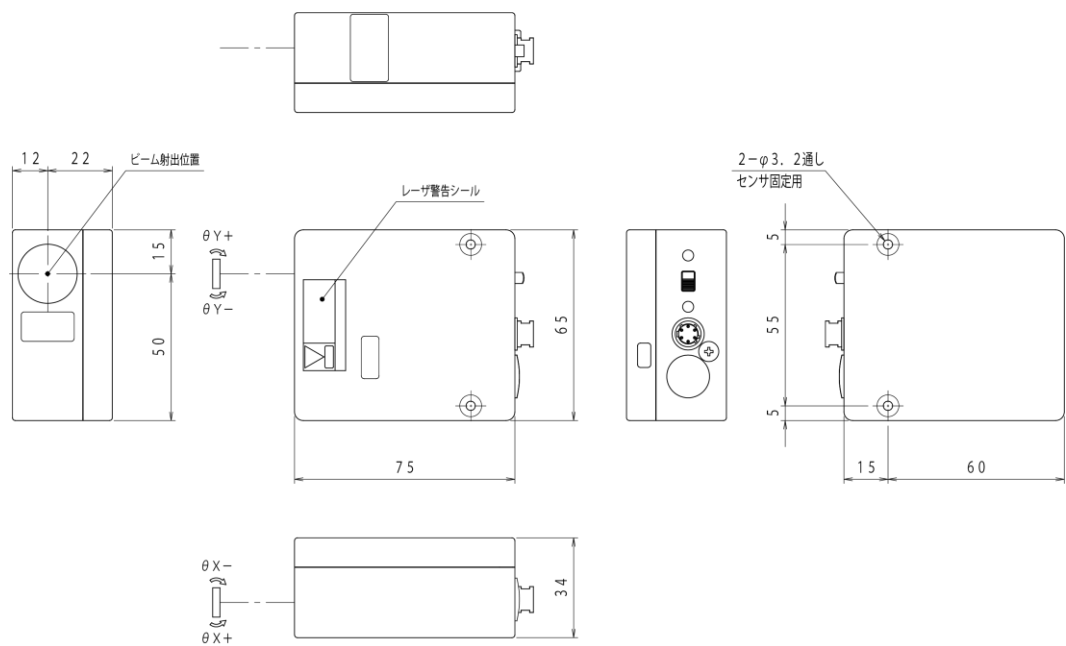


Specification

Title		Specification
Model		ST-3100
Measurement object		Optical plane(Reflectance 80% or higher)
Measurement type		Tilt (ΘX, ΘY)
Working distance		0~200mm
Measurement method		Autocollimator method
Measurement area		±54min (Circular range)
Source	Wave length	660±10nm
	Beam class	JIS C6802 2014 Class 1 (Max 390μW)
	Beam diameter*1	φ1mm
Repeatability*2		0.025min
Linearity*3		±0.15% of F.S. (±0.16min equates)
Disital output / output rate*4		RS-232C / 1,600times/sec
Size (Without Protrusions)		W65×D75×H34mm
Weight		0.2kg

- *1 Sensor immediately after radiation diameter. (1/e²)。
- *2 katsura opto systems standard sample use Range of variation (6σ) of the average of 16 measurements.
- *3 Whwn it is a katsura opto systems standard sample use(WD.140mm), It possibility to Data can change from time to time.
- *4 During continuous data output (communication command \$START* can only be executed on any one of the digital output 1 or 2 terminals). Both digital output terminals can be used at the same time, or different communication commands can be used,The number of outputs decreases depending on the baud rate setting.

Drawing



*Specification, Drawing, Outline are Provisional.
It possibility to change of Detail. Please contact us of detail.

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