

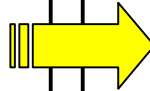


Inspecting if lens is tightened

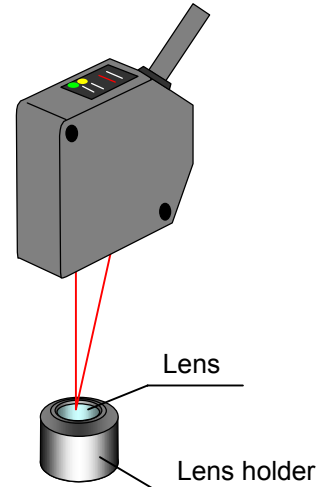
OUTLINE / PREVIOUS

Customer: Optical component manufacturer
Process: Lens component inspecting process

The height of lens is measured so that to confirm if the lens and the lens holder are properly tightened.



SOLUTION



PROBLEM

Highly accurate sensor is required that achieves stable measurement even in high-speed production line.

MODEL / HOW TO

HL-C203F HL-C2C HL-C2AiM

Small beam spot type **HL-C203F** is adopted.

BENEFIT 1 Highly accurate

HL-C203F is a displacement sensor with performance of sampling 100kHz, linearity $\pm 0.03\%$, resolution (*) $0.025\mu\text{m}$, the distance to a lens can be accurately measured.

* **HL-C203FE** is not subject to control, which resolution is $0.25\mu\text{m}$ (used in combination with controller **HL-C2CE**).

BENEFIT 2 High speed sampling

Sampling period as high speed as $10\mu\text{s}$ is achieved, so that the sensor can respond to measure the height of the lens more faster than ever before.

BENEFIT 3 Intelligent monitor

In order to achieve minute detection, more stable measurement condition setting can be performed by monitoring measurement with **HL-C2AiM**.