



Vibration check for vibrating blades

OUTLINE / PREVIOUS

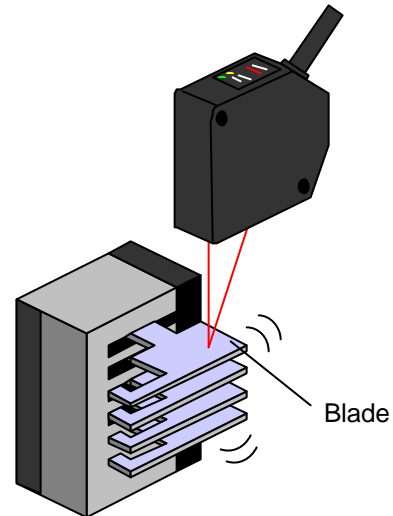
Customer: Machine builder
Machinery: Knitting machine

The vibration (amplitude) of blades in the knitting machine is checked.

PROBLEM

Sensors are required that follows the vertical movement of blades in a high speed with small amplitude so as to obtain stable measurement data.

SOLUTION



MODEL / HOW TO

HL-C203F HL-C2C HL-C2AiM

HL-C2AiM is adopted to monitor the analog data that has been transferred to a PC.

BENEFIT 1 Highly accurate

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

* **HL-C203FE** is not subject to control, whose resolution is 0.25 μm (used in combination with controller **HL-C2CE**).

BENEFIT 2 High speed sampling

Sampling period as high speed as 10 μs is achieved, so that the sensor can respond to measure the vibration of blades 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**.