



Measuring the thickness of the electrode plate for battery

OUTLINE / PREVIOUS

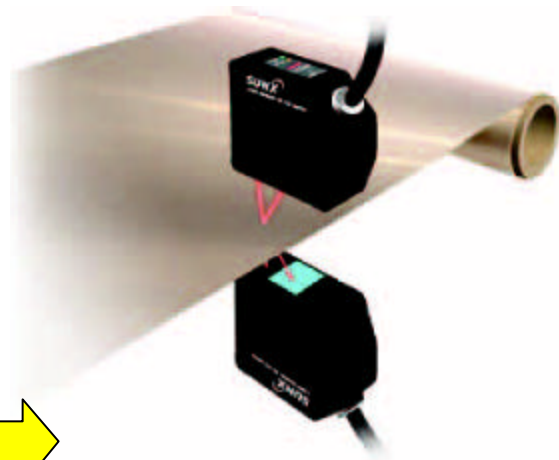
Customer: Battery manufacturer
Process: Battery manufacturing process

The thickness of the electrode plate for battery is measured.

PROBLEM

Measured data is recorded as a product traceability so that highly accurate sensor is required.

SOLUTION



MODEL / HOW TO

HL-C203F-MK HL-C2C HL-C2AiM

2 units of **HL-C203F-MK**, linear beam spot type, are used. Calibration setting is performed with **HL-C2AiM**.

BENEFIT 1 Highly accurate

HL-C203F-MK is a displacement sensor with performance of sampling 100kHz, linearity $\pm 0.03\%$, resolution (*) $0.025\mu\text{m}$, the thickness of the electrode plate for battery can be accurately measured. * **HL-C203FE-MK** is not subject to control, which resolution is $0.25\mu\text{m}$ (used in combination with controller **HL-C2CE**).

BENEFIT 2 Functionally-rich I/O

HL-C2C can be connected to a variety of devices such as analog output, RS-232C and USB cable, so that the stored data in these devices can be displayed and analyzed as well as the control of the sensor can be achieved.

BENEFIT 3

<Useful tip>
 In order to achieve more stable detection, tilt the sensor head so that the linear beam spot is also slightly tilted to the grain of hairline finish.

Electrode plate

Direction of grain

Install the sensor so that the linear beam spot is slightly tilted