



Height control of glass substrate in air float transportation

OUTLINE / PREVIOUS

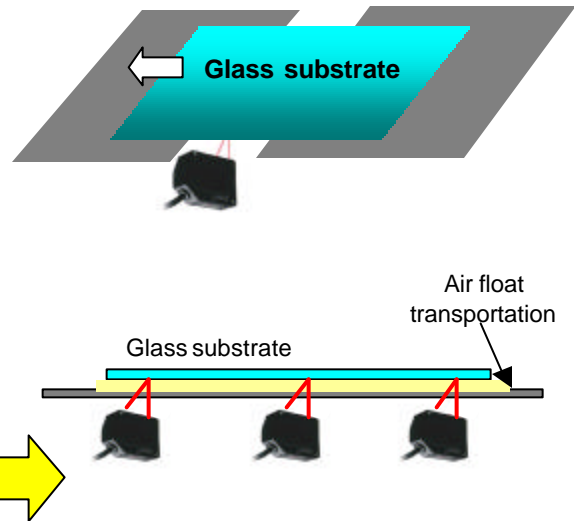
Customer: Liquid crystal substrate transporting machine manufacturer
Machinery: Transporting machine

In air float transportation system, glass substrates are controlled to be transported in a certain height.

PROBLEM

Highly accurate sensor that measures the height of a glass substrate is required.

SOLUTION



MODEL / HOW TO

HL-C203F-MK HL-C2C HL-C2AiM

Several sensor heads are arranged underneath the glass substrate to collect height data as well as to make feedbacks to the system so that the optimum floating level is maintained.

Setup mode: Specular reflective

If reflective light amount is large, optional ND filter **HL-C2F01** is used to reduce to the appropriate laser beam intensity.

BENEFIT 1 Highly accurate

HL-C203F-MK is a displacement sensor with performance of sampling 100kHz, linearity $\pm 0.03\%$, and resolution (*) $0.025\mu\text{m}$, so that the distance to the glass can be accurately measured. * **HL-C203FE-MK** is not subject to control and its resolution is $0.25\mu\text{m}$ (used with controller **HL-C2CE**).

BENEFIT 2 Stable measurement

Linear beam spot type **HL-C203F-MK** is adopted. In addition, glass pattern mode function brings stable measurement with even a patterned glass.

BENEFIT 3 Intelligent monitor

Optional **HL-C2AiM** helps to monitor the waveform of the light received amount also to perform settings from PC easily. This contributes to reduce man-hour in installation or maintenance of the facility.

