



Detection of defective moldings

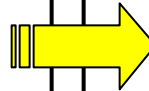
OUTLINE / PREVIOUS

Customer: Packaging machine manufacturer
Machinery: Vacuum molding machine

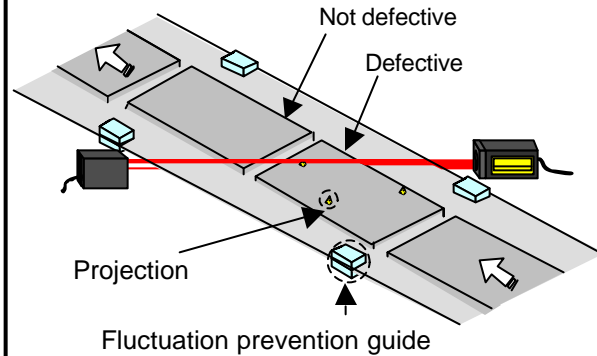
After forming process of sheet at vacuum molding machine, defective items are detected.
Sheet detected with projection is judged to be defective.

PROBLEM

Sensor is required which can detect small projection as well as does not bring operational failure even at the splicing of sheets.



SOLUTION



MODEL / HOW TO

HL-T1005A HL-AC1

Laser collimated beam sensor of sensing width 5mm type is used. Sensor heads are placed opposite, tilted against the sheet, in order to reduce operational failure at the splicing of sheets. A guide to prevent fluctuation of sheet is also installed.

BENEFIT 1

Stable detection

HL-T1005A can detect opaque object as minimum as F 0.05mm, so that the minute protrusion on a sheet is stably detected.

BENEFIT 2

Very small sensor head

HL-T1005A can be easily installed to narrow space because of its compact size; emitter is as small as W15 x H15 x D34mm, receiver is W15 x H15 x D19mm.

BENEFIT 3

Judgment output function for 3 values

HL-T1 series is equipped with red semiconductor laser as well as judgment output function for 3 values, so that not only projection detection also height detection after forming can be achieved.