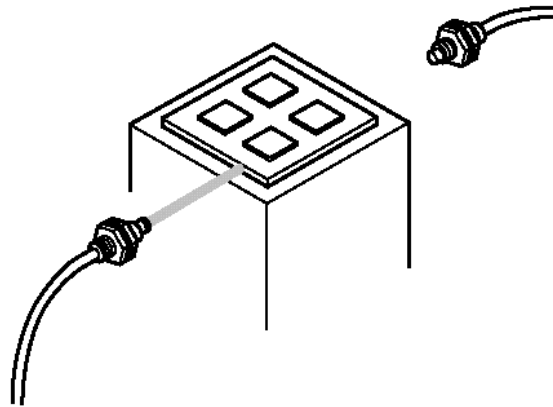




Detecting unseated device in a tray

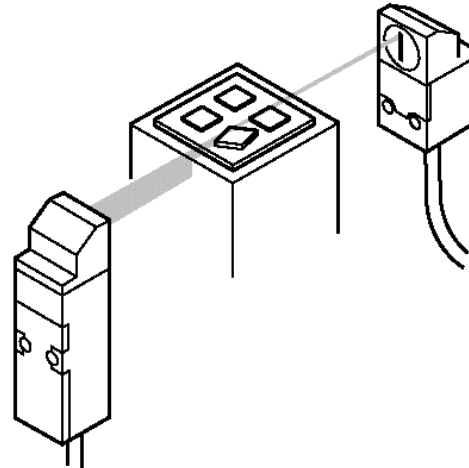
PREVIOUS METHOD



PROBLEM

It is hard to install a fiber in order to detect unseated device well due to narrow light. It cannot correspond with variations in the height of a tray. It cannot deal with a big tray either because its sensing range is short.

SOLUTION



MODEL

HL-T1005A
HL-AC1

BENEFIT 1

Easy installation

TIPS: It is hard to install a fiber to a place that it can detect unseated chips well because light gets cut off completely just when a tray rattles. However, it is easy to install HL-T1 thanks to wide light.

BENEFIT 2

Long-range sensing is possible.

TIPS: A narrow beam fiber that can detect unseated fine device has a short sensing range and cannot correspond with a big tray. On the contrary, a long-range sensing of 500mm is possible with HL-T1005. Therefore, there is no problem with a distance of 100mm. In addition, it can detect unseated fine chips because detection of non-transparent objects more than 50us is possible.

BENEFIT 3

Zero reset function is equipped.

TIPS: When detecting, a slight displacement or rattle can occur for each tray. Using zero reset function for each tray allows a higher precision judgement because a sensor precisely detects if device is located or not by making each tray a reference.