

## LASER OBSTACLE DETECTION METHOD AND SENSOR

### ABSTRACT

A sensor for detecting the presence or the absence of an obstacle by radiating a laser beam radiated from a laser beam source to the outside of a casting (12) through the medium of a light projecting mirror (20) and by letting the reflected light from an obstacle or similar object enter a light receiving element through the medium of a light receiving mirror (30). By comparing a received light signal from a light receiving circuit to an output signal from a circuit for a previous setting threshold having correlation between detected distance and light intensity, a light receiving trigger is outputted and the distance is calculated when a signal is greater than the threshold, and the presence or the absence of an obstacle is determined by the detection of reflected light intensity with the above-described threshold as a boundary. Thereby the present invention is especially effective when equipped on an automated guided vehicle (AGV), and the laser obstacle detection method and sensor which do not misdetect rainfall or the like as an obstacle can be provided.

Fig. 1.