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(71) Applicant(s):

OPTEX Co., Ltd. [JP/JP]; 5-8-12, Ogoto, Otsu-shi, Shiga 5200101 (JP) (*for all designated states except US*)

IWASAWA, Masashi [JP/JP]; c/o OPTEX Co., Ltd., 5-8-12, Ogoto, Otsu-shi, Shiga 5200101 (JP) (*for US only*)

CHO, Seongho [KR/JP]; c/o OPTEX Co., Ltd., 5-8-12, Ogoto, Otsu-shi, Shiga 5200101 (JP) (*for US only*)

(72) Inventor(s):

IWASAWA, Masashi; c/o OPTEX Co., Ltd., 5-8-12, Ogoto, Otsu-shi, Shiga 5200101 (JP)

CHO, Seongho; c/o OPTEX Co., Ltd., 5-8-12, Ogoto, Otsu-shi, Shiga 5200101 (JP)

(74) Agent(s):

ARC PATENT ATTORNEYS' OFFICE; Sumitomoseimei Midouji Bldg., 14-3, Nishitemma 4-chome, Kita-ku, Osaka-shi, Osaka 5300047 (JP)

(54) Title (EN): LASER SCAN SENSOR

(54) Title (FR): CAPTEUR À BALAYAGE LASER

(54) Title (JA): レーザスキャンセンサ

(57) Abstract:

(EN): Provided is a laser scan sensor (100) that is equipped with a laser range finder (110), a scan mechanism (120), a data acquisition unit (130), a contamination assessment unit (140), a notification output control unit (150), and a memory (160). The laser range finder (110) is disposed in the interior of a case (101) that is provided with an opening, and the opening is covered by a lens cover (116) that is transparent to laser beams. In the contamination assessment unit (140), a prescribed threshold value, to which the level of the received light is compared, is altered on the basis of the maximum range detected information in each direction of measurement.

(FR): L'invention concerne un capteur à balayage laser (100) qui est doté d'un télémètre laser (110), d'un mécanisme de balayage (120), d'une unité d'acquisition de données (130), d'une unité d'évaluation de contamination (140), d'une unité de commande d'émission de notification (150) et d'une mémoire (160). Le télémètre laser (110) est disposé à l'intérieur d'un boîtier (101) qui est doté d'une ouverture, et l'ouverture est recouverte d'un cache d'objectif (116) qui est transparent vis-à-vis des faisceaux lasers. Dans l'unité d'évaluation de contamination (140), une valeur seuil prescrite, à laquelle le niveau de la lumière reçue est comparé, est modifiée en fonction des informations de plage maximale détectées dans chaque direction de mesure.

(JA): 一実施形態では、レーザスキャンセンサ(100)は、レーザ距離計(110)と、スキャン機構(120)と、データ取得部(130)と、汚れ判定部(140)と、警告出力制御部(150)と、メモリ(160)とを備えている。レーザ距離計(110)は開口部を有する筐体(101)の内部に配置されており、その開口部はレーザ光が透過可能なレンズカバー(116)で覆われている。汚れ判定部(140)において受光レベルとの大小比較を行う所定閾値を、測定方向毎の最大検知距離情報に基づいて変更する。

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