

Title (en)
CAPACITIVE PROXIMITY SENSOR

Title (de)
KAPAZITIVER NÄHERUNGSSENSOR

Title (fr)
DÉTECTEUR DE PROXIMITÉ CAPACITIF

Publication
EP 1964264 A1 20080903 (DE)

Application
EP 06829555 A 20061212

Priority
• EP 2006011978 W 20061212
• DE 102005063023 A 20051214

Abstract (en)
[origin: WO2007068457A1] An arrangement serves the purpose of monitoring an object such as a door for changes in a field surrounding the object. A sensor-active region having a measurement area (11a) is associated with the object, and a driver (12, 13) applies a certain variable in the sensor-active region. A receiver (14) detects the variable applied by the drivers and changes in the variable in the field surrounding the object (10) in the sensor-active region (11). By means of a circuit which is connected downstream of the receiver (14), the changes in the field surrounding the object (10) are used to produce a control and/or measurement signal (?11a, ?11b). As a result of the fact that, in order to detect changes in the variable in the field surrounding the object (10), in addition a further measurement path or a reference path with an associated driver (13, 12) is provided, the fact that a clock circuit (15) for switching each of the measurement paths or the measurement path and the reference path on in sections of time is provided, the fact that a regulating device (17) for regulating the at least one variable introduced by the drivers (12, 13) into the measurement paths and/or reference path in response to changes in the variable in the field is provided, with the result that on average the same amplitude of the variable passes from the drivers and the sensor-active region (11) to the receiver (14) at the receiver (14) from each of the measurement paths, and the fact that the sensor-active region (11) is coupled, at a high resistance, at least to the drivers (12, 13), an arrangement for monitoring an object is made more sensitive and at the same time less susceptible to faults.

IPC 8 full level
H03K 17/955 (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2007068457A1

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