

Title (en)

METHOD FOR DETERMINING THE DISTANCE BETWEEN A REFERENCE OBJECT AND AT LEAST ONE TARGET OBJECT

Title (de)

VERFAHREN ZUR BESTIMMUNG DER ENTFERNUNG ZWISCHEN EINEM BEZUGSOBJEKT UND MINDESTENS EINEM ZIELOBJEKT

Title (fr)

PROCEDE SERVANT A DETERMINER LA DISTANCE SEPARANT UN OBJET DE REFERENCE D'AU MOINS UN OBJET CIBLE

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Application

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Abstract (en)

[origin: WO0190778A1] The invention relates to a method for determining the distance between a reference object and at least one target object by means of timing the interval between transmission and return of the reflected signal. The aim of the invention is to provide a simple, economical means of determining the distance between a reference object and at least one target object located in the range of observation and/or the speed and/or the acceleration of at least one target object located in the range of observation with a high degree of accuracy. The transmitting unit that is used to emit a pulse-type transmission signal is controlled in a clocked manner with a first control signal and the receiving unit used for detecting the resulting reflective signal is controlled in a clocked manner by a second control signal in order to sample the reflected signal at specific sampling points. The second control signal is phase-shifted in relation to the first control signal in such a way that the distance deviation between the distance to the target object determined based on the interval between the transmission and return of the reflected signal and the actual distance to the target object is minimized. The invention also relates to a method for supporting driver assistance systems for automobiles.

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IPC 8 full level

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