

Title (en)
RADAR MEASUREMENT DEVICE, ESPECIALLY FOR A MOTOR VEHICLE, AND METHOD FOR OPERATING A RADAR MEASUREMENT DEVICE

Title (de)
RADARMESSVORRICHTUNG, INSBESONDERE FÜR EIN KRAFTFAHRZEUG, UND VERFAHREN ZUM BETREIBEN EINER RADARMESSVORRICHTUNG

Title (fr)
DISPOSITIF DE MESURE RADAR, EN PARTICULIER POUR VEHICULE AUTOMOBILE, ET PROCEDE POUR FAIRE FONCTIONNER UN TEL DISPOSITIF

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Application
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Abstract (en)
[origin: WO2004025322A1] The invention relates to a radar measurement device which has a simple structure and which enables reliable distance measurement even when a mixed signal is reset to zero. The invention also relates to a method for operating a measurement device. The radar measurement device comprises a high-frequency oscillator (11) emitting two different carrier frequency signals (F1,F2), a first switching device (14) for switching the carrier frequency signals (F1, F2) according to first pulse signals (P1) and for emitting radar pulse signals (T1,2), a transmission aerial (16) and a reception aerial (18), a second switching device (24) for switching carrier frequency signals according to a delayed second pulse signal (P2) and for emitting delayed radar pulse signals (S1,2), a mixing device (21) for mixing received radar signals (R1,R2) with the delayed radar pulse signals (S1,S2) and for emitting mixed signals (M1,M2). The phase difference between the received radar signals (R1,R2) and delayed radar pulse signals (S1,S2) varies according to a predefined value when the two carrier frequency signals (F1,2) are emitted. An amplitude signal is determined from the first and second mixed signals (M1, 2).

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