

Title (en)

OSCILLATOR AND RECTIFIER CIRCUITS FOR PROXIMITY SWITCHES.

Title (de)

OSZILLATOR UND GLEICHRICHTER-SCHALTUNGEN FÜR EIN ANNÄHERUNGSSCHALTER.

Title (fr)

CIRCUITS OSCILLATEURS ET REDRESSEURS POUR INTERRUPTEURS DE PROXIMITÉ.

Publication

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Application

EP 93902773 A 19921228

Priority

- GB 9127570 A 19911231
- US 9211233 W 19921228

Abstract (en)

[origin: GB2263025A] When a critically damped oscillator is used in inductive proximity sensors there is no electrical information regarding the target position when the target is closer than the detection distance. This is detrimental to the speed of operation of the proximity sensor when the target is removed. The invention, therefore, provides a proximity switch circuit including first and second transistors (Q4, Q6) connected as a long tail pair with an inductive sensing circuit (LC) connected to one leg thereof and an emitter follower circuit (Q7, Q8) connected between said one leg and the base of the transistor of the other leg, whereby an oscillator circuit can be provided which is non-critically damped to enable faster speed of operation of the proximity switch.

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Citation (search report)

- [XA] US 3609580 A 19710928 - THOMPSON FRANCIS T, et al
- See references of WO 9313436A1

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