

Title (en)  
MOTION DETECTOR

Title (de)  
BEWEGUNGSMELDER

Title (fr)  
DETECTEUR DE DEPLACEMENT

Publication  
**EP 1031045 A1 20000830 (DE)**

Application  
**EP 98949004 A 19981002**

Priority  
• DE 19749991 A 19971112  
• EP 9806292 W 19981002

Abstract (en)  
[origin: WO9924847A1] The invention relates to a motion detector or proximity switch for detecting moving objects, wherein a high frequency electromagnetic radiation is generated by a free running oscillator and transmitted via a transmitter antenna. Said transmitter antenna detects the Doppler modified radiation reflected by the moving object as a function of its phase position or amplitude variation. Said radiation is compared with the transmitted radiation parameters in an evaluation device with a view to producing an output signal. The inventive detector is characterised in that it comprises a free running oscillator having a feedback guaranteed by at least one transmitter antenna ANT RX and at least one receiver antenna ANT TX which are oriented towards the object and coupled via a side or leakage radiation.

IPC 1-7  
**G01S 13/56**; **G01S 7/35**

IPC 8 full level  
**G01S 7/35** (2006.01); **G01S 13/56** (2006.01)

CPC (source: EP US)  
**G01S 7/35** (2013.01 - EP US); **G01S 13/56** (2013.01 - EP US)

Citation (search report)  
See references of WO 9924847A1

Designated contracting state (EPC)  
AT ES FI FR GB IT NL SE

DOCDB simple family (publication)  
**WO 9924847 A1 19990520**; AU 9542398 A 19990531; DE 19749991 C1 19990826; EP 1031045 A1 20000830; US 6333691 B1 20011225

DOCDB simple family (application)  
**EP 9806292 W 19981002**; AU 9542398 A 19981002; DE 19749991 A 19971112; EP 98949004 A 19981002; US 55421300 A 20000511