

Title (en)

INTEGRATOR HAVING SWITCHED HYSTERESIS FOR PROXIMITY SWITCHES.

Title (de)

INTEGRATOR MIT GESCHALTETER HYSTERESE FÜR ANNÄHERUNGSSCHALTER.

Title (fr)

AMELIORATIONS APORTEES AUX INTERRUPTEURS DE PROXIMITE.

Publication

**EP 0619925 A4 19950719 (EN)**

Application

**EP 93902771 A 19921228**

Priority

- GB 9127572 A 19911231
- US 9211231 W 19921228

Abstract (en)

[origin: WO9313599A1] The present invention provides an integrator (5) with switched hysteresis for inductive proximity switches comprising a reference current source (IREF) connected between a reference voltage supply rail and a first side of a current mirror, a second side of the current mirror being connected to a proximity switch rectifier, the first side of the current mirror being connected to a capacitor (CINT) and to one input of a two input comparator, the other input of the comparator being held at a threshold level, wherein a fixed hysteresis current source IHYST is provided in parallel with the current reference source IREF, the fixed hysteresis current source IHYST producing a switchable current which is a fixed proportion of the current of the current reference source (IREF), the fixed hysteresis current source IHYST being switched on (off) when a target is detected and off (on) when no target is detected. This invention provides for reduction of effects detrimental to the speed of operation of the switch.

IPC 1-7

**H03K 5/153**; **H03K 17/945**

IPC 8 full level

**H03K 3/0233** (2006.01); **H03K 17/945** (2006.01)

CPC (source: EP)

**H03K 3/02337** (2013.01); **H03K 17/945** (2013.01)

Citation (search report)

- [X] EP 0458044 A2 19911127 - BOSCH GMBH ROBERT [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 173 (E - 329)<1896> 18 July 1985 (1985-07-18)
- See references of WO 9313599A1

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

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