

Title (en)
CONTACTLESS WORKING PROXIMITY SWITCHING DEVICE

Publication
EP 0207270 B1 19930120 (DE)

Application
EP 86106629 A 19860515

Priority
• DE 3523371 A 19850629
• DE 3609537 A 19860321

Abstract (en)
[origin: US4680436A] A contactless proximity switch and mounting arrangement for determining the position of a movable member within a cylinder which has two end covers secured on the cylinder by means of a plurality of tie rods, includes a switch housing which secures to one of the tie rods. A contact opening formed in the switch housing has disposed therein, a switch having a pair of contacts and a permanent magnet disposed in a fixed manner. One pole of the permanent magnet is connected to a first contact, while the second pole is disposed in a contacting relation to the cylinder. A second contact is electrically coupled to the cylinder at a position a predetermined distance from where the second pole is disposed. As the movable member, which is constructed of a ferromagnetic material, nears the switch housing, the air gap between the second contact and second pole is bridged and the contacts close indicating the proximity of the movable member to the switch element. The entire proximity switch apparatus can be moved along the longitudinal axis of the cylinder.

IPC 1-7
F15B 15/28; **H01H 36/00**

IPC 8 full level
F15B 15/28 (2006.01); **H01H 36/00** (2006.01); **H01H 3/16** (2006.01); **H01H 9/02** (2006.01)

CPC (source: EP US)
F15B 15/2892 (2013.01 - EP US); **H01H 36/008** (2013.01 - EP US); **H01H 3/16** (2013.01 - EP US); **H01H 9/0207** (2013.01 - EP US)

Cited by
CN109530652A; FR2664946A1; EP0824196A1; CH691003A5

Designated contracting state (EPC)
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0207270 A2 19870107; **EP 0207270 A3 19880914**; **EP 0207270 B1 19930120**; AT E84910 T1 19930215; BR 8603000 A 19870217; DE 3609537 A1 19870108; DE 3687547 D1 19930304; US 4680436 A 19870714

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