

Title (en)

DEVICE FOR DETECTING POSITION OF A PISTON IN A FLUID PRESSURE CYLINDER

Title (de)

VORRICHTUNG ZUR ERFASSUNG DER POSITION EINES KOLBENS IN EINEM FLUIDDRUCKZYLINDER

Title (fr)

DISPOSITIF DE DÉTECTION DE POSITION D'UN PISTON DANS UN CYLINDRE DE PRESSION DE FLUIDE

Publication

EP 3483456 A1 20190515 (EN)

Application

EP 18000841 A 20181029

Priority

SI 201700294 A 20171108

Abstract (en)

The invention refers to a device for detecting position of a piston in a fluid pressure cylinder by a magnetic sensor. The technical problem is how to conceive a device, in which the use of the material for the fluid pressure cylinder will not be limited to nonmagnetic materials, and to improve its reliability. The technical problem is solved by a device (1) for detecting a piston position in a fluid pressure cylinder, particularly in a hydraulic cylinder, comprising a fluid pressure cylinder (2), a piston (3) reciprocally slidable along the internal circumferential surface of the fluid pressure cylinder (2), a piston rod (4) connected with its first end with the piston (3) and projecting with its another end through the front side of the fluid pressure cylinder (2), a permanent magnet (5), the movement of which corresponds to the movement of the piston (3), and at least one magnetic switch (6) arranged on the external side of the fluid pressure cylinder (2) and susceptible to being actuated by said permanent magnet (5), wherein the permanent magnet (5) is arranged on the external side of the fluid pressure cylinder (2).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

US 4793241 A 19881227 - MANO SHIGERU [JP], et al

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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