

Title (en)

METERING DEVICE FOR CONTACTLESS DETERMINATION OF A ROTATION

Title (de)

MESSVORRICHTUNG ZUR BERÜHRUNGSLOSEN ERFASSUNG EINES DREHWINKELS

Title (fr)

DISPOSITIF DE MESURE POUR DETERMINER SANS CONTACT UN ANGLE DE ROTATION

Publication

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Application

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Abstract (en)

[origin: DE19753777A1] The invention relates to a metering device for contactless determination of a rotation angle. The inventive device comprises a rotor (12) and a stator (11). Said stator (11) has inter alia two segments (24, 25) separated by a slit (26, 27). The slit (27) is adapted in such a way that the magnetic field generated by a permanent magnet (21) forming the rotor (12) does not extend above the slit (27) but above the air gap (26) where a magnetic-field sensitive member (30) is placed. The permanent magnet (21) has a form fitted to the slit (27) and the two segments (24, 25) so that, while the permanent magnet (21) rotates, the air gap (27) is not scanned by the magnetic field. It is thus possible to determine a relatively wide angle with a linear metering curve having no sign change.

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