

Title (en)

DEVICE FOR POSITIONAL AND/OR LENGTH DETERMINATION

Title (de)

VORRICHTUNG ZUR POSITIONS- UND/ODER LÄNGENBESTIMMUNG

Title (fr)

DISPOSITIF DE DETERMINATION DE POSITION ET/OU DE LONGUEUR

Publication

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Application

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Abstract (en)

[origin: WO2004013576A1] The invention relates to a device for positional and/or length determination comprising a carrier unit with an absolute magnetic length coding and a measuring unit that co-operates with the carrier unit and can be displaced in relation to the latter. Said measuring unit has a magnetic sensor unit (SCi, SFi) and can be connected to an electronic evaluation unit (18 to 32) that is located downstream of the measuring unit. According to the invention, the elongated, rod-shaped carrier unit (10) is provided with one track of preferably radially magnetized length coding, a plurality of coding sections comprising periodic pole divisions is provided along the length coding and coding sections of a first polarity alternate with coding sections of a second polarity along the carrier unit, in such a way that a maximum of two coding sections of the same polarity lie directly adjacent to one another.

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