

Title (en)
SENSING DEVICE

Title (de)
SENSORVORRICHTUNG

Title (fr)
DISPOSITIF CAPTEUR

Publication
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Application
EP 10726608 A 20100428

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Abstract (en)
[origin: WO2010150416A1] The present invention discloses a speed and movement direction sensing device. The sensing device includes an incremental encoder, which generates three pulses shifted with 120 (electrical) degrees. A speed signal generation section receives the encoder signals and generates a pulse signal, which frequency is proportional with the frequency of the input signal. The encoder self-test section monitors the encoder states and detects encoder error based on the encoder signals and a direction detection section generates a direction signal based on the encoder pulses. The sensing device allows encoder self-test even in case of zero speed. The fault-tolerant speed and movement direction sensing device offers a higher reliability than the prior art and can be applied in motion control systems where high safety and integrity level is required.

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See references of WO 2010150596A1

Citation (examination)
EP 1672324 A1 20060621 - NSK LTD [JP], et al

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