

DIGITAL MOVEMENT MEASURING DEVICE

Text of the abstract

A device for measuring movement of a mobile element moving in at least one direction, comprising:

- a light source adapted to emit a light beam;
- at least one optical member intercepting the light beam and attached to said mobile element to track its movement;
- pixel type sensors capturing the transmitted beam determined by the relative position of the optical member relative to the light source, the pixels being disposed so that at least some of them receive illumination that varies with the position of the mobile element as it moves;
- a comparator module comparing the values obtained from the pixels of the sensors with two distinct thresholds in order to assign some of them a logic value;
- a calculation module determining the position of the mobile element from the data from the comparator module.

Fig. 1