

Device for measuring the position of a piston in
a cylinder

ABSTRACT

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This invention relates to a device for measuring the position of a piston (2) in a cylinder (1), extending according to an axis, the device comprising at least two position sensors (3, 4) respectively
10 comprising: a first sensor member (20, 40) integral with a supporting pallet (31) linked to the piston (2), a second sensor member (10, 30) integral with the cylinder (1), the first and second members of each sensor being arranged for being mobile in translation
15 one relative to the other, along an axis parallel to the axis of the cylinder (1), the device being characterized in that the first sensor members (20, 40) are integral with the same supporting pallet (31) being linked to the piston (2) by a ball joint link
20 (50). Using the device of this invention, a position sensor can be arranged in the cylinder, without having the transversal strains on the piston being transmitted to it, while the piston remains free in rotation about the axis of the cylindrical barrel.

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Abstract figure: Fig. 5