

Cylinder and method for determining a position of a piston in a cylinder

Abstract

5 The invention refers to a cylinder (100, 200, 300), particularly for use in a hydraulic system, comprising a cylinder housing (102, 202) with cylindrical side wall (103, 203); a piston (101, 201) located axially slidable in the cylinder housing (102, 202); a plurality of transmitting devices (1061 – 10
5061, 1062 – 5062, 1063 – 5063), which are located at the cylinder housing (102, 202) and arranged to feed ultrasonic signals (108) into the side wall (103, 203) of the cylinder housing (102, 202); whereby one control device (111), by means of which the plurality of the transmitting devices (1061 – 5061, 1062 – 5062, 1063 – 5063) is controlled in such
15 way that the ultrasonic signals (108) being fed into the side wall (103, 203) of the cylinder housing (102, 202) overlap in such way that one signal at a position of the piston (101, 201) is above a predetermined threshold value.

Fig. 1