

Abstract

The invention relates to a floor position detection device for an elevator system (10). The floor position detection device is used to determine a position of a car of the elevator system relative to a floor. The floor position detection device has a sensor unit (35) and an evaluation device (36) for producing a floor signal (56) having at least two states, wherein: the floor signal (56) can adopt at least one "outside the range of the floor" state outside a range of a floor and a "within the range of the floor" state within the overall range of the floor; the sensor unit (35) has at least two sensors (28, 30, 32, 34) which each produce a floor position characteristic value (48, 50, 52, 54); and the evaluation device (36) is configured to produce the floor signal (56) on the basis of a comparison between at least two of the floor position characteristic values (48, 50, 52, 54). The floor signal (56) can also adopt at least two mutually distinguishable states within the range of a floor, wherein each of these mutually distinguishable states corresponds to a partial range of the range of a floor, the partial ranges fully covering the range of a floor.

(Fig. 3)