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An improvement in safety and reliability of an elevator is intended by enabling detection of a door zone even when a position detection sensor itself fails.

5 An elevator with a safety position sensor that detects the door zone representing a region of permitting passengers getting on and off comprises a first and second position detection sensor 3 and 4 that are provided at the side of the car, are spaced apart
10 by a predetermined distance (S) in the upward and downward running direction and are disposed so as to face the side of a landing floor, a plate to be detected 1 that is provided at the side of the landing floor and is arranged so as to permit detection of the door zone
15 by the position detection sensors and a logical operator 5 that receives signals from the first and second position sensors 3 and 4 and outputs a result of logical operation of the inputted signals, wherein a logical OR output signal from the logical operator 5 is treated
20 as a detection signal of the door zone.