

Abstract

The door system for an elevator system comprises a door frame which frames a door opening and comprises a first door jamb. The door system also comprises a first monitoring unit, which is mounted on the door frame, for monitoring a monitoring region of the door opening. At least one first region of the door frame has a first retroreflective surface which extends over at least 20% of the height of the first door jamb. The first monitoring unit has a light source which is designed to illuminate the first retroreflective surface with light beams. The first monitoring unit comprises a light sensor which is designed to measure the angle-resolved intensity of the light beams reflected by the retroreflective surface. The first monitoring unit determines an output value based upon the angle-resolved intensity in that the first monitoring unit detects when the angle-resolved intensity falls below a threshold intensity for at least one angle. The output value includes whether there is an obstacle in the monitoring region.

(Fig. 1)