

Pinch Detection System for Door Edge of Rolling Stock Using Door Edge Rubber Containing Pressure Sensor

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Foreign objects, such as the baggage of a passenger, can be pinched by the door edge when passengers get on and off the rolling stock. However, it is difficult to detect the small substance with the current pinch detection system. In such cases, a drag accident may be happens successively. Therefore, the authors have developed a new pinch detection system using door edge rubber containing pressure sensor. The door edge rubber containing pressure sensor can detect the pinch and the drag of small substances and strings which cannot be detected with the current detection system. This paper describes the results of detection sensitivity test of door edge rubber containing pressure sensor. In addition, it also the proposes new detection system which consists of the door edge rubber containing pressure sensor and the wireless unit to notify pinch or drag to the crew of the rolling stock.