

Title (en)

DEVICE FOR THE DETECTION OF THE OCCUPIED OR FREE STATE OF A TRACK SECTION

Title (de)

VORRICHTUNG ZUR DETEKTION DES BELEGT- ODER FREIZUSTANDES EINES GLEISABSCHNITTES

Title (fr)

DISPOSITIF DE DÉTECTION DE L'ÉTAT OCCUPÉ OU LIBRE D'UNE SECTION DE VOIE

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Application

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Priority

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Abstract (en)

[origin: WO2009141251A1] The invention relates to a device for the detection of the occupied or free state of a track section (1), comprising at least one transmitter (S1, S2) on the vehicle side, and pairs of receivers on the track side, which are disposed at the ends (2, 3) of the track section (1), each having first and second receivers (E1, E2) disposed at a distance in the track direction 10, wherein the receivers (E1, E2) receive signals from the transmitter (S1, S2) as the vehicle (4) passes and are connected to an analysis unit. In order to ensure exact association between the track section ends (2, 3) and the current vehicle position, the invention provides that for a coupling range (D1, D2) between the transmitter (S1, S2) and the receiver (E1, E2), plus a maximum driving segment (D0), which results from a minimum pulse duration (t0) of the receivers (E1, E2) and a maximum segment speed (v max), a response of the receivers (E1, E2) during passage is preset such that the responses of the receivers (E1, E2) of the receiver pair overlap in the event of increase of the coupling range (D1, D2) due to an error.

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