Claims

1. Passenger transport system (100) having a conveyor belt, comprising:
- at least one balustrade (110) extending substantially in parallel with the conveyor belt, having a first end and a second end,
- a handrail (111) which is guided circumferentially along the balustrade (110) between the first and second ends of the balustrade, wherein at least one handrail end curve (112) is located at the first end and at the second end,
- at least one protective device (130),
- a fastening device (120) for mounting the at least one protective device (130), wherein the fastening device (120) for the at least one protective device (130) is in the region of the handrail end curve (112),
- at least one sensor (151) for detecting the presence of the at least one protective device (130),
- a control unit (152) connected to the at least one sensor (151) for controlling the direction of travel (101, 102) of the conveyor belt and the handrail (111), which control unit is designed to operate the passenger transport system (100) in different directions of travel, wherein the control unit blocks the operation of the passenger transport system (100) in one direction of travel on the basis of the sensor signal, such that, if there is the at least one protective device (130) in the region of the handrail end curve (112), the direction of travel in which the handrail runs into the protective device is blocked (102).

2. Passenger transport system (100) according to claim 1, wherein the at least one protective device (130) is fastened in the region of the handrail end curve (112).

3. Passenger transport system (100) according to either claim 1 or claim 2, wherein the passenger transport system (100) is an escalator having a step belt as a conveyor belt or a moving walkway having a pallet belt as a conveyor belt.

4. Passenger transport system (100) according to any of the preceding claims, wherein the at least one protective device (130) is divided into two parts at least substantially in the direction of travel of the handrail and the two parts, after being connected, form a housing around the handrail (111) in the region of the handrail end curve (112).

5. Passenger transport system (100) according to any of the preceding claims, wherein the fastening device (120) comprises mounting elements for fastening the at least one protective device (130) to the balustrade.

6. Passenger transport system (100) according to claim 5, wherein the fastening device (120) comprises bores in the balustrade.

7. Passenger transport system (100) according to any of the preceding claims, wherein the at least one protective device (130) comprises at least one interaction element (150), and wherein the sensor (151) is designed to detect the presence of the interaction element (150) after the at least one protective device (130) has been mounted.

8. Passenger transport system (100) according to claim 7, wherein the interaction element (150) is a magnet, and wherein the sensor (151) is designed to detect the presence of the magnet after the at least one protective device (130) has been mounted.

9. Passenger transport system (100) according to claim 8, wherein the position of the magnet can be changed after the installation of the at least one protective device (130) for the purpose of fine adjustment.

10. Passenger transport system (100) according to any of the preceding claims, wherein the sensor (151) is a magnetic sensor.

11. Passenger transport system (100) according to any of the preceding claims, wherein the sensor (151) is positioned in the region of a handrail inlet cap (141) of the passenger transport system (100).

12. Passenger transport system (100) according to any of the preceding claims, wherein each handrail end curve (112) has a sensor (151) for detecting a mounted protective device (130).

13. Passenger transport system (100) according to any of the preceding claims, wherein the balustrade (110) is a first balustrade and the passenger transport system (100) comprises a second balustrade (110) which has fastening elements (120) and extends in parallel with the first balustrade, wherein the first balustrade and the second balustrade (110) are arranged on both sides of the conveyor belt and extend in parallel therewith, and wherein the second balustrade (110) has a first end having a first handrail end curve (112) and a second end having a second handrail end curve (112) and wherein the first ends of the first and second balustrades are opposite one another and the second ends of the first and second balustrades are opposite one another.

14. Passenger transport system (100) according to claim 13, wherein the control unit (152) is additionally designed:
- to block the passenger transport system in both directions of travel (101, 102) if no protective device (130) is present or a single protective device is present,
- to block the passenger transport system (100) in both directions (101, 102) if at least one protective device (130) is present at the first end and at least one protective device (130) is present at the second end of either of the two balustrades (110).

15. Method for controlling a bidirectional passenger transport system (100), comprising:
- determining the presence of at least one protective device (130) in the region of a handrail end curve (112) by means of a sensor (151),
- preventing the operation of the passenger transport system (100) in a blocked direction of travel (102) based on the determination of the presence of the at least one protective device (130) in the region of a handrail end curve (112), wherein the blocked direction of travel (102) is defined by the handrail (111) running into the at least one protective device (130).