

Системы позиционирования штрихкода безопасности FBPS 600i

Технические характеристики

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Safe bar code positioning system

The world's first safety bar code positioning system, FBPS 600i, requires just one sensor for safe position detection. The device is connected to a safe evaluation unit – e.g. a frequency inverter – via two SSI interfaces and is suitable for applications up to performance level PL e. This allows easy implementation of safety functions and a reduction in space and installation requirements.

Safety at Leuze



Safe bar code positioning system FBPS 600i

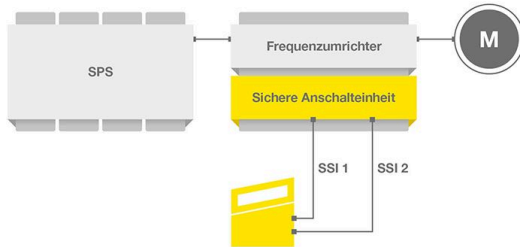
For safe position detection with just one device up to PLe

The world's first safety bar code positioning system, FBPS 600i, requires just one sensor for safe position detection. The device is connected to a safe evaluation unit – e.g. a frequency inverter – via two SSI interfaces and is suitable for applications up to performance level PL e. As a result, safety functions can be implemented extremely easily and the time and effort required for installation and servicing is reduced.

Advantages for you

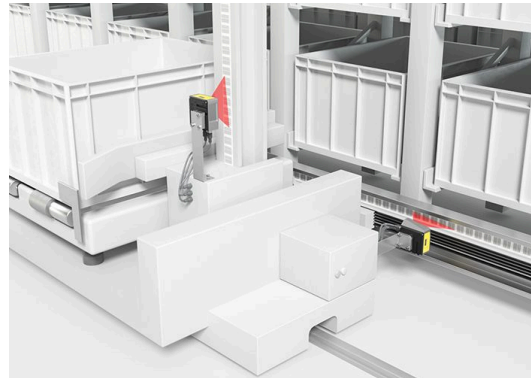
- Safe position detection with just one device up to PL e
- Extremely easy implementation of the safety functions
- Low space requirements and reduced installation effort
- Short fault reaction time of 10 ms for use on fast stacker cranes
- Extremely robust, mechanically resilient and UV-resistant bar code tape
- Wide working range of 50 to 170 mm and the well-thought-out fastening concept ensure simple mounting and integration

Highlights



Safe position detection with just one device up to PL e

The FBPS 600i requires just one sensor for safe position detection. The device is connected to a safe evaluation unit – e.g. a frequency inverter – via two SSI interfaces. Furthermore, the devices already meet the requirements for PL e / SIL 3. As a result, safety functions can be implemented extremely easily and the time and effort required for installation and servicing is reduced.



Suitable for fast movements

The FBPS 600i is ideal for position detection in applications involving fast movements, e.g. on stacker cranes. For this purpose, the FBPS 600i has an extremely short error reaction time of just 10 ms. This enables the optimization of speed curves and handling performance.



Reliable operation

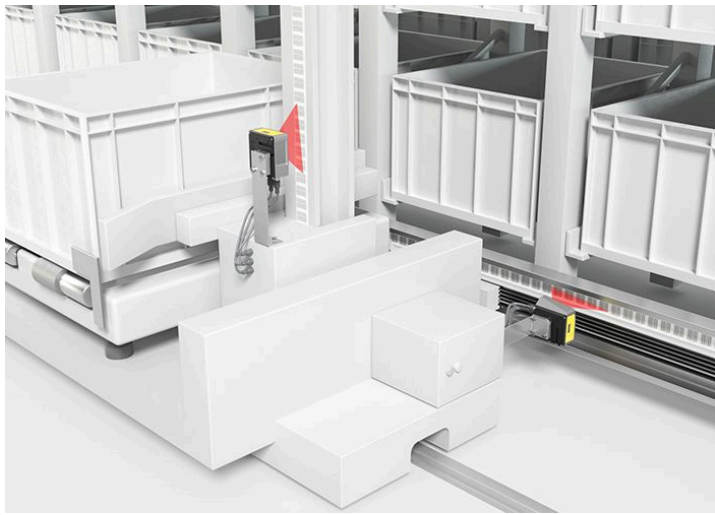
The FBPS 600i works particularly reliable. Each scanning operation reads several codes from which the software determines highly precise position values. The diagonal path of the scanning beam and the movement of the device mean that each code is scanned at different points. This prevents reading errors caused by local soiling or damage.

The bar code tape too has been optimized for use in industrial environments. The self-adhesive plastic tape is UV resistant, extremely resilient and mechanically durable. In addition, the printed position values are easy to read and simplify handling.



Fast and correct mounting in all situations

The well-thought-out fastening concept with quick-change system ensures simple mounting of the FBPS 600i devices. They are securely mounted to the clamp bracket using an easily accessible screw. This saves time during installation and allows the devices to be changed quickly if servicing is required. Furthermore, thanks to their wide working range of 50 to 170 mm, the FBPS 600i devices are easy to integrate into existing systems.



Safe position detection on stacker cranes

Requirement:

The dangers present at the system and the necessary Performance Level PLr have been determined with a risk assessment. Relevant standards such as EN 528 (safety requirements for stacker cranes) provide support here. For the necessary safe position and speed monitoring, e.g., during maintenance or with manned cars, safe position detection is required.

Solution:

The FBPS 600i safe bar code positioning system offers safe position detection with just one device. It satisfies the requirements for PL e / SIL 3 and makes the implementation of the safety functions especially simple.

Technical properties

FBPS 600i

Safety	Safety PL e, SIL 3, category 4 (EN ISO 13849-1 and IEC 61508)
Error reaction time	10 ms ... 400 ms (adjustable)
Connection	2x SSI interface 2x M12 connector Power supply: M12 connector Configuration and diagnosis: Mini-USB
Reproducibility	+/- 0.15 mm (1 Sigma)
Reading distance	50 ... 170 mm
Degree of protection	IP 65
Temperature range	-5 ... +60°C With heating: -35...+60°C
Dimensions, W x H x D	Connections at side: 116.3 x 112.5 x 51.5 mm Connections underneath: 105 x 123.8 x 51.5 mm
Display (optional)	Display of position and status information
Status signal of reading quality	For early detection of soiling

Bar code tape

Feature	Features Extremely resilient plastic tape, UV-resistant, self-adhesive with acrylate adhesive, position values printed in plain text
Standard bar code tapes	Height: 25 mm, 47 mm Length: up to 200 m
Configurable bar code tapes	Height: 20 mm to 140 mm Selectable start and end value in the Ranging from 0 to 10,000 m
Bar code grid dimension	30 mm

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