

FBPS 600i

Safe bar code positioning system

Safety at Leuze



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.

Areas of application

- Safe and fast position detection

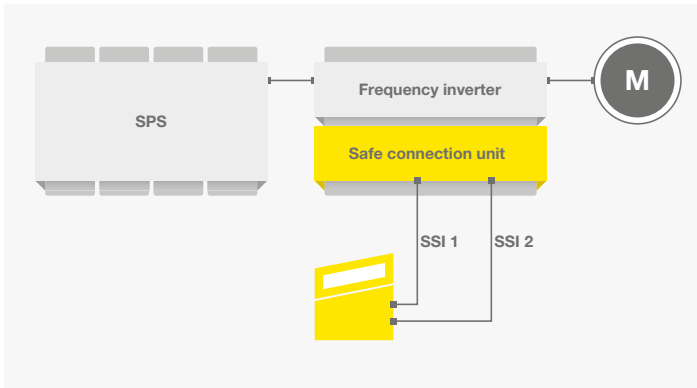
Advantages for you at a glance

- Safe position detection with just one device up to PL e
- Low space requirements and reduced installation effort
- Extremely easy implementation of the safety function
- Short fault reaction time of 10 ms for use on fast stacker cranes
- Reliable operation through the simultaneous scanning of multiple codes and extremely resilient and UV-resistant bar code tape
- Wide reading distance range of 50 to 170 mm and the well-thought-out fastening concept ensure simple mounting and integration

Specifications	Safety	PL e, SIL 3, category 4 (ISO 13849-1 and ISO 61508)	
	Error reaction time	10 ms ... 400 ms (adjustable)	
	Connections	2x SSI interface: Power supply: Config. and diagnosis:	2x M12 connector M12 connector mini-USB
	Reproducibility	±0.15 mm (1 sigma)	
	Reading distance	50 ... 170 mm	
	Temperature range	-5 ... +60° with heating -35 ... +60°	

Features	Connections at side or underneath
	Optional display for showing position and status information
	'Reading quality' status signal for early detection of soiling
Bar code tape	
Extremely resilient plastic tape, UV-resistant, self-adhesive with acrylate adhesive, position values printed in plain text, grid dimension 30 mm.	
Standard tapes with height 25 or 47 mm, length up to 200 m.	
Configurable tapes: selectable height as well as start and end value.	

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.

For applications involving fast movements



The FBPS 600i is ideal for position detection in applications involving fast movements, e.g. for use on high-bay storage devices. 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 just one 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 reading distance range of 50 to 170 mm, the FBPS 600i devices are easy to integrate into existing systems.