

FBPS 600i

Safe barcode positioning system

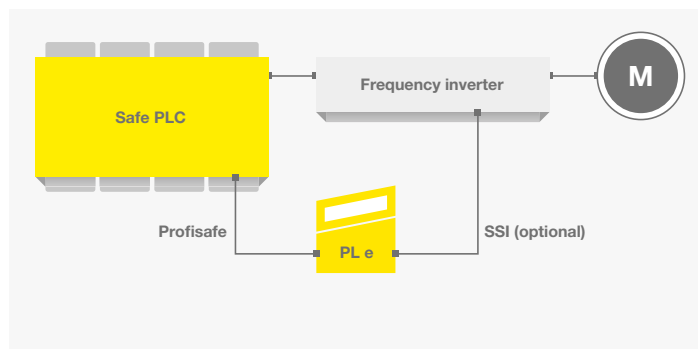
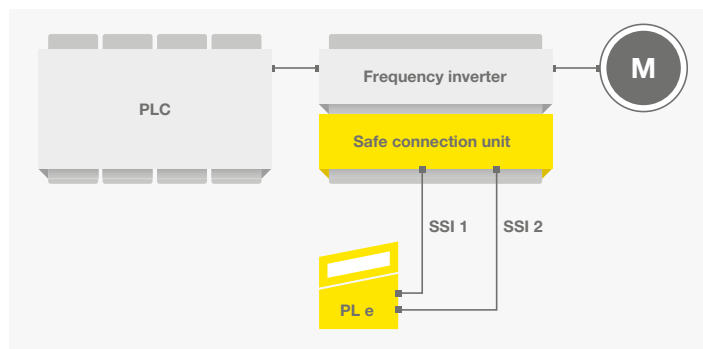
Safety at Leuze



Safe and fast position detection

With the world's first FBPS 600i safety barcode positioning system, only one sensor is required for reliable position detection. The device is connected via two SSI interfaces to a safe evaluation unit, e.g. a frequency converter, or via PROFIsafe to a safe PLC and is suitable for applications up to Performance Level e. This makes safety functions particularly easy to implement and reduces installation and service costs.

Safe position detection with one device up to PL e



With the FBPS 600i, only one sensor is required for safe position detection. In addition, the devices already meet the requirements for PL e/SIL 3. This makes safety functions particularly easy to implement and reduces installation and service costs. Another useful feature is the safe output of the speed.

Your advantages at a glance

- Safe position detection with one device up to PL e
- Low space requirement and reduced installation effort
- Particularly simple implementation of the safety function
- Short fault response time of 10 ms for use on fast storage and retrieval machines
- Reliable operation thanks to simultaneous scanning of multiple codes and extremely robust and UV-resistant barcode tape
- Large working range from 50 to 170 mm and a well-designed mounting concept ensure easy installation and integration

Technical data	Safety	PL e, SIL 3, Category 4 (ISO 13849-1 and ISO 61508)	
	Error response time	10 to 400 ms (adjustable)	
	Connections	SSI interface:	2x M12 connector
		PROFINET/PROFIsafe,	
		opt. SSI:	2(3)x M12 plug
		Power supply:	M12 plug
		Configuration and diagnostics:	Mini USB
	Reproducibility	±0.15 mm (1 sigma)	
	Reading distance	50 – 170 mm	
	Temperature range	–5 to +60° with heating –35 to +60	

Features	Connections on the side or bottom
	Optional display for position and status information
	Status signal 'read quality' for early detection of contamination
	Barcode tape Extremely robust plastic tape, UV-resistant, self-adhesive with acrylic adhesive, position values printed in plain text, grid dimension 30/40 mm. Standard tapes with a height of 25 or 47 mm, length up to 200 m. Configurable tapes: Height and start and end values can be selected.

Reliable operation



The FBPS 600i operates with exceptional reliability. Each scanning process reads multiple codes, from which the software determines highly accurate position values. The oblique path of the scanning beam and the movement of the device ensure that each code is scanned at different points. This prevents reading errors caused by local contamination or damage.

The barcode tape is also optimized for industrial use. The self-adhesive plastic tape is UV-resistant, extremely durable, and mechanically resilient. The printed position values are also easy to read, simplifying handling.

Always quick and easy to install



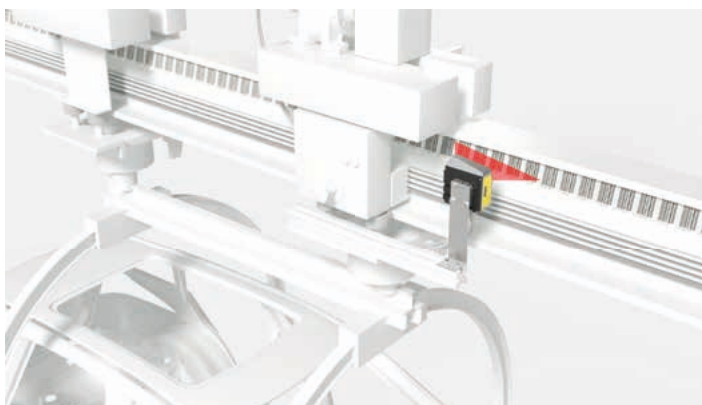
The well-designed mounting concept with quick-change device makes the FBPS 600i easy to install. The devices are securely fastened with just one easily accessible screw on the clamp holder. This saves time during installation and allows the devices to be quickly replaced in the event of servicing. In addition, the FBPS 600i is easy to integrate into the system thanks to its large reading distance range of 50 to 170 mm.

Suitable for fast movements



The FBPS 600i is particularly suitable for position detection during fast movements, such as for use on rack and conveyor systems. The FBPS 600i has a very short error response time of only 10 ms. This allows speed curves and handling performance to be optimized.

Suitable for flexible mounting positions



The FBPS 600i is also suitable for position detection in flexible mounting positions, such as on electric monorail systems. The very large working range of 50–170 mm of the devices enables optimal use on curved tracks and in switch applications.

Our portfolio at a glance

Switching sensors

- Optical sensors
- Inductive sensors
- Capacitive sensors
- Ultrasonic sensors
- Fiber optic sensors
- Fork sensors
- Light curtains
- Special sensors

Measuring sensors

- Distance sensors
- Positioning sensors
- 3D sensors
- Light curtains
- Bar code positioning systems
- Fork sensors

Safety

- Safety Solutions
- Safety Laser Scanners
- Safety Light Curtains
- Single and Multiple Light Beam Safety Devices
- Safety Radar Sensors
- Secure Locking Devices, Switches and Proximity Sensors
- Safety Controllers and Relays
- Machine Safety Services

Identification

- Bar Code Identification
- 2D-Code Identification
- RF Identification

Data transmission

- Optical data transmission systems

Network and connection technology

- Connection technology
- Modular connection units

Industrial image processing

- Light section sensors
- Smart camera

Accessories and add-on products

- Signaling devices
- Mounting systems
- Reflectors

How to contact us

Leuze electronic GmbH + Co. KG

In der Braike 1, 73277 Owen, Germany

T +49 7021 573-0

F +49 7021 573-199

info@leuze.com

www.leuze.com