

## **PRESS RELEASE**

**For cost-effective and maintenance-free precision in the automotive sector and intralogistics**

### **Schmersal presents new magnet track sensor box at SPS 2022**

**Wuppertal / Nuremberg, 8 November 2022.** The Schmersal Group is showcasing a new magnet track sensor box at SPS in Nuremberg, designed to detect the position of electric monorail conveyors in the automotive industry and intralogistics.

Wear-free solenoid switches from Schmersal have long been used in the automotive industry. They are used to monitor the speed and position of moving machine parts, such as those on electric monorail conveyors used to transport bodies, engines, doors and other supplied parts to different assembly workstations in automobile plants. The new SSB-R magnet track sensor box now carries out these functions with significantly improved precision.

The SSB-R sensor box detects the field of suitable actuator magnets on four independent tracks and switches the signal status on pass-by. This level change, which occurs on rapid pass-by, is retained until the next activation, i.e., retentively. A connected control unit uses the signals to determine the position and section of the sensor box and controls, for example, the speed or holding positions of the drive motor.

Two angle sensors in the sensor box allow a monorail conveyor to be brought to a halt at the desired stopping position with an accuracy of approx. 1.5 mm. This is of particular benefit at

robot workstations, where components need to be positioned with extreme accuracy. No additional magnets are required to enable this fine positioning.

Furthermore, the sensor box also integrates four shielded tracks in latching reed technology. As such, the sensor box can be installed with ease with just a single M12 connector, which is much more straightforward than with previously used solenoid switches. In addition, a second connector can also be integrated into the sensor box to allow connection of additional signal evaluation without significant wiring effort.

The sensor box can be used up to a maximum speed of 300 m/min. Furthermore, it has IP 65 degree of protection and can be used in temperature ranges of -25°C to +70°C.

The magnet track sensor box has already proven its capabilities in initial applications, in particular in electric vehicle production. The box is also well prepared for increasing market demand for this drive type thanks to its UL approval for the US market.

Visit Schmersal at SPS – Smart Production Solutions – **stand 460, hall 9** between **8 and 10 November 2022**.

**Photo in print quality for download:**

[https://products.schmersal.com/media/images/PHO\\_PRO\\_CAT\\_kssbrf12\\_SALL\\_AINL\\_V2.jpg](https://products.schmersal.com/media/images/PHO_PRO_CAT_kssbrf12_SALL_AINL_V2.jpg)

**Image caption:**

The SSB-R magnet track sensor box monitors the speed and position of electric monorail conveyors cost-effective, maintenance-free and with great precision.

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**About the Schmersal Group**

The Schmersal Group is an international market and expertise leader in the challenging field of machine safety. With the world's most comprehensive range of safety switchgear products, the Schmersal Group develops safety systems and solutions for special requirements in a variety of user industries. Schmersal's tec.nicum business division offers a comprehensive service portfolio to complement the range of solutions offered by Schmersal. Founded in 1945, the company is represented by seven manufacturing sites on three continents with its own companies and sales partners in more than 60 countries. The Schmersal Group employs more than 1900 people worldwide.

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