

PRESS RELEASE

Condition monitoring solutions for bulk material conveyor systems

Schmersal and ROXON to showcase new online monitoring system for conveyor systems at bauma 2022

Wuppertal, 8 September 2022. For operators of conveyor systems, process protection is just as important as personal protection. The Schmersal Group will be demonstrating its solutions for condition monitoring and safe and efficient operation of conveyor systems at bauma 2022. The HX170, a new online belt monitoring system for conveyor systems developed by Schmersal's system partner ROXON, will be presented at **stand C2.311 in hall C2** for the first time.

The HX170 allows conveyor belts to be permanently monitored and damages, such as cracks, holes, and edge damage, to be detected early on so that these can be rectified by maintenance teams, thus helping to prevent more severe damage. The benefit: system availability is significantly increased. Especially for conveyor systems that are critical to downstream production, condition monitoring is critical to maintaining production levels and throughput. The HX170 is based on optical 3D belt surface sampling in real time, which is capable of detecting all types of damage. The innovative and compact system is specially designed for short conveyor belts with increased wear. Used in conjunction with the integrated belt thickness measurement, the system enables efficient maintenance and helps to extend service life.

Belt misalignment switch for process protection

Belt misalignment switches are also useful for process protection and monitor the straight-line motion of conveyor systems. Uneven loads can cause position deviations, which in extreme

cases can cause damage and material spillage. To prevent this from happening, belt misalignment switches send a tiered signal when position deviations are detected on the conveyor belt. While the pre-warning signal is used to draw attention to the need for belt correction, the stop signal warns of the need to shut the system down.

With the modular HDS series from Schmersal, the two functions of the belt misalignment switch and an emergency stop, designed as a pull-wire emergency-stop switch, are integrated into one hardware platform. This makes the HDS series particularly flexible, allowing it to be used for a wide range of possible applications. Switches in the HDS series can be optionally connected to the Dupline installation bus, allowing them to be connected in series and thus enabling easier transmission of diagnosis data. The transmission of status information allows anomalies to be identified and faults to be rectified more quickly, in turn reducing downtime.

Visit Schmersal at bauma in Munich, **stand C2.311, hall C2 from 24 to 30 October 2022,**

Printable photo for download:

https://products.schmersal.com/media/images/PHO_PRO_APP_khds-f36_SALL_AINL_V1.jpg

Image caption

Solutions for process protection – such as the HDS series belt alignment switches and belt monitoring systems – help to boost the efficiency of conveyor systems.

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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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