SCHNEEBERGER GmbH
LINEAR TECHNOLOGY

November 2025

Gräfenau 12
75339 Höfen / Enz
Deutschland

Telefon: +49 (0) 7081 / 782- 0
Telefax: +49 (0) 7081 / 782- 147
E-Mail: info-d@schneeberger.com
Internet http://www.schneeberger.com

Contact:
Peter Schönbach
Vertriebsleiter
peter.schoenbach@schneeberger.com

Productronica 2025

Worldwide the first SCHNEEBERGER Integrated absolute measuring system “SAM”.Guiding and measuring as an integrated system solution in miniature guideways

SCHNEEBERGER Linear technology is currently presenting the world's first to the market.
The new SCHNEEBERGER absolute measuring system “SAM” is a further digital step for linear guideways (Industry 4.0). Guiding and measuring are integrated in one system solution.

The product “SAM” is currently the smallest absolute measuring system integrated in the miniature guideways type MINIRAIL.

The unique SCHNEEBERGER absolute measuring system “SAM” is therewith another digital step for linear guideways in the Industry 4.0 environment. Guiding and measuring as an integrated system solution as well as the plug & play functions open up new digital applications and solutions for the manufacturing industry.

3 of 5 possible interfaces can be used simultaneously (BiSS / SSI, ABZ, UVW, SPI, analogue Sin/Cos)
The calibrated parameter values are stored in the sensor's internal EEPROM so that the carriage finds it´s last position.

In addition, the scale is lasered directly onto the guideway, giving the user a quick overview.
With > 2 µm (3-sigma), it is extremely accurate in position and secures the process reliability.
SAM is currently the smallest integrated absolute measuring system and is available in the smallest miniature guideways MINIRAIL. The sensor size is 9.9 x 5.0 x 1.1 mm.
With “SAM”, guiding and measuring as an integrated system solution in the smallest space takes on a new, enormously compact dimension.

Fig. 1: The unique SCHNEEBERGER absolute measuring system opens new digital applications for the manufacturing industry with guiding and measuring as an integrated system solution and plug & play functions