



MPS – Superior Positioning.

New applications for pneumatic cylinders through
analogue position sensors

Magnetic position sensors from SICK: More functionality for pneumatic cylinders.

SICK advances automation and increases the common sizes of magnetic position sensors for pneumatic cylinders. For good reasons! Measuring ranges from 32 to 256 mm now fully cover a complete range of cylinders, and feature new matching measuring and switching functions. Furthermore, applications previously requiring costly linear drives can now be implemented pneumatically, i.e. faster and cheaper.



Magnetic position sensors in operation: Measuring and switching to new dimensions.

A new variety of tasks for cost-effective and powerful pneumatic cylinders, even where expensive linear drives are used. The magnetic position sensors ensure more efficient production flows in all common applications. Measuring, positioning, testing, quality control – MPS sensors now offer more accuracy, speed, safety and economy!

POSITIONING

The magnetic position sensors (MPS) prove themselves in position measurement and control on coordinate measuring machines and contribute to increased productivity.



PRESSING

Press-in tasks on automatic assembly machines, such as the pressing of plugs into housings, are achieved faster and more accurately using magnetic position sensors. Feed and press-in depth can be monitored using the position sender.



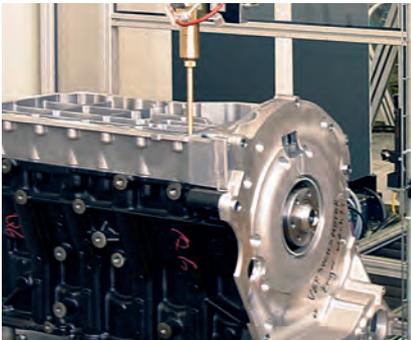
METERING

Metering systems, such as those for filling spray bottles, work faster and more accurately using magnetic position sensors (MPS). The MPS range convincingly handles similar tasks in the food industry.



GRIPPING

The MPS series magnetic position sensors offer an ideal and economic solution to a wide range of gripping tasks in pick and place applications.



MEASURING/TESTING

Critical quality control station: the MPS assists in both pass and fail part testing and checking of assembly operations. E.g. gearbox assembly: with the MPS, the screw-in depth can be controlled to within ± 0.1 mm accuracy.

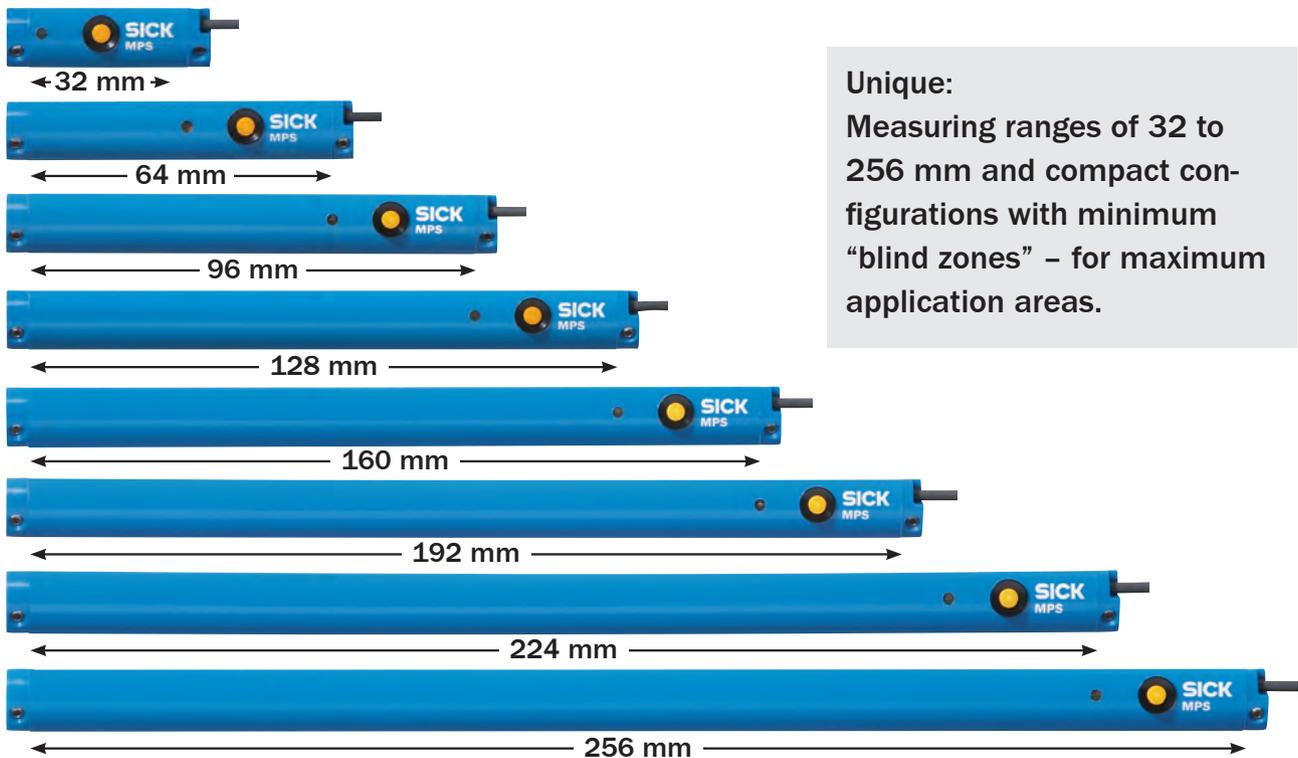


CLAMPING

Precise clamping of various targets is now even more accurate with the MPS magnetic position sensors. Product changeovers can also be faster and easier, resulting in less plant downtime.

Switching ... more flexibly, accurately, comfortably.

The new SICK magnetic position sensors introduce attractive options for using efficient and economically priced pneumatic cylinders. The performance has also increased and now offers 1 ms sampling rate and up to 0.2% linearity, setting new benchmarks in this sensor class.



Unique:
Measuring ranges of 32 to 256 mm and compact configurations with minimum “blind zones” – for maximum application areas.

ADVANCE THROUGH CONVENIENCE

No other sensor is ready more quickly. The MPS is simply inserted into the T slot from above, and attached vibration and shock-proof by 2 mounting screws. Space restrictions are no problem either: “drop in”, and the sensor is ready for commissioning, with the mounting direction freely selectable.

MORE SPACE FOR MEASURING

The MPS housing design is as compact as technically possible, aiming at keeping blind zones within the housing as small as possible and to provide the widest space available for measuring. The MPS offers a practical variety of sizes, matched to the dimensions of the most commonly used pneumatic cylinders.

FOCUS ON PRECISION

The MPS also offers electrical zero and end point adjustment, allowing additional detection zone adjustment. Thus, the MPS measuring range is customized very easily, achieving resolutions unique to this device category. The LED in-range display shows whether the piston is within the measuring range.

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Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

Handed over by:

Our Business Segment Expertise

Factory automation

With its intelligent sensors, safety systems, and automatic identification applications, SICK provides comprehensive solutions for factory automation.



- Non-contact detecting, counting, classifying, and positioning of any type of object
- Accident protection and personal safety using sensors, as well as safety software and services

Logistics automation

Sensors made by SICK form the basis for automating material flows and the optimization of sorting and warehousing processes.



- Automated identification with barcode and RFID reading devices for the purpose of sorting and target control in industrial material flow
- Detecting volume, position, and contours of objects and surroundings with laser measurement systems

Process automation

Optimized system solutions from SICK ensure efficient acquisition of environmental and process data in many industrial processes.



- Precise measurement of gases, liquids and dust concentrations for continuous monitoring of emissions and the acquisition of process data in production processes
- Gas flow measurements with maximum accuracy thanks to compact gas meters