DIN 32876 Part 1

Hardened steel probe body, nickel-plated

Linear guidance on ball bearing. 4 M6 mounting threads. Fixed mechanical stops. Interchangeable inserts. Dovetail.clamp for mounting holder. Cable length: 2 m. 5-pin connector DIN 45322.

Supply frequency: 13 kHz (± 5 %) Max. mechanical frequency**: 25 Hz.

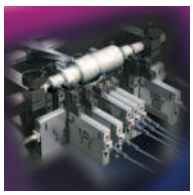
-0,14 µm/°C

20 ± 0,5°C

IP50 (IEC 60529)

Mobile weight: 110 g

Inspection report with a declaration of conformity



Application: Minimal space usage with FMS units placed side by side

Application: small component measuring thanks to offset inserts

Probes with Parallel Guidance, ± 2 mm or ± 2,9 mm, 5,8 mm Measuring Travel

Modular construction enables the combination of elements, for example, such as springs, pneumatic cylinders and stops.

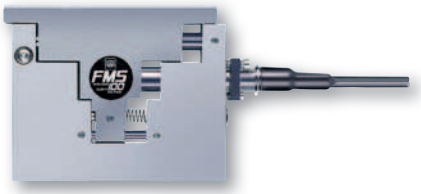
These universal probes are suited for multigauging fixtures as well as machines equipped with integrated inspection routines.

Versatility of applications:

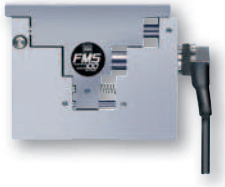
- Probe can be used in any position for measuring.
- Measuring direction is adjustable.
- Retraction of the measuring insert is adjustable.
- Measuring force is adjustable depending on the accessory used.
- Possibility of using off-centre measuring inserts.

Unique design:

- Compact assembly noted for its robustness.
- Ball bearing guided movement.
- Wide variety of measuring inserts, holders and other accessories for measuring applications.
- LVDT execution versions compatible with melectronic equipment from other suppliers available on request.



FMS 100



FMS 102

NO		Measuring range, mm	Nominal measuring force*, N	Bolt retraction	Sealing bellows
03230019	**FMS 100**	± 2	2	Retraction by air pressure (optional)	Without bellows
03230049	**FMS 130**	± 2,9	2	Retraction by air pressure (optional)	Without bellows
03230028	**FMS 102**	± 2	2	Retraction by air pressure (optional)	Without bellows
03230050	**FMS 132**	± 2,9	2	Retraction by air pressure (optional)	Without bellows

	Measuring bolt travel, mm	Max.permissible error for deviation in linearity, µm (L in mm)	Repeatabilty, µm	Hysteresis, µm	Setting of lower stop of measuring bolt***, mm	Cable output	Data sheet No.
FMS 100	5,8	$0,2 + 3 \cdot L^3$	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Parallel	03200253
FMS 130	5,8	$0,2 + 3 \cdot L^3$	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Parallel	03200342
FMS 102	5,8	$0,2 + 3 \cdot L^3$	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Parallel	03200254
FMS 132	5,8	$0,2 + 3 \cdot L^3$	0,5	0,5	Fixed stops: lower -2,9 lower +2,9	Parallel	03200343

* Electrical zero (N) ± 25 % deviation limit. Valid in vertical mounting position, measuring bolt lowered and in static measuring.
** For an amplitude of 10 % to the last value of the measuring range.
*** Distance from electrical zero.