

- DIN 32876 Part 1
- Hardened steel probe body, nickel-plated
- Linear guidance on ball bearing, 4 M6 mounting threads.. Fixed mechanical stops. Interchangeable inserts. Holder with dovetail clamping. 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
- IP54 (IEC 60529)
- Mobile weight: 110 g
- Inspection report with a declaration of conformity



Application: measurement with a protected FMS



FMS 102-P



FMS 100-P

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

- FMS 100-P, 102 -P, 130-P, 132-P provide dust protection of the 2 side faces.

Modular concept for combining elements, for example, such as springs, pneumatic actuators and stops.

These universal probes are suitable for mutigauging inspection fixtures as well as machines with integrated automated inspection routines.

Versatility of applications:

- Probe can be used in any position for measuring
- Measuring direction can be changed
- 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.

			Measuring range, mm	Nominal measuring force*, N	Bolt retraction	Sealing bellows
03230037	FMS100-P	± 2	2	Retraction by air pressure (optional)	Without bellows	
03230051	FMS130-P	± 2,9	2	Retraction by air pressure (optional)	Without bellows	
03230038	FMS102-P	± 2	2	Retraction through air pressure (optional)	Without bellows	
03230052	FMS132-P	± 2,9	2	Retraction through air pressure (optional)	Without bellows	

	Measuring bolt travel, mm	Max. permissible errors for deviations in linearity, µm (L en mm)	Repeatability, µm	Hysteresis, µm	Setting of lower stop of measuring bolt***, mm	Cable output	Data sheet No.	
FMS100-P	5,8	0,2 + 3 · L ³	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Parallel	03200283	
FMS130-P	5,8	0,2 + 3 · L ³	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Parallel	03200344	
FMS102-P	5,8	0,2 + 3 · L ³	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Angled	03200289	
FMS132-P	5,8	0,2 + 3 · L ³	0,5	0,5	Fixed stops: lower -2,9 upper +2,9	Angled	03200345	

* 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.

