

N DIN 32876
Part 1

B Nickel-plated housing. Stainless steel measuring bolt, hardened. Sealing bellows: Nitrile = resistant elastomer

A Fixing shank Ø 8 mm. Ball-bearing measuring bolt. Distance from electrical zero of both stops is either adjustable (downward) or depending on the position of the lower stop (upward). Interchangeable measuring insert with a 3 mm dia. tungsten carbide ball tip plus M2,5 thread. 2 m long cable. DIN 45322 5-pin connector.

S Supply frequency: 13 kHz (± 5 %) Max. mechanical frequency**: 60 Hz.

T 0,025 µm/°C

H 20 ± 0,5°C

IP IP65 (IEC 60529)

W Mobile weight: 3,1 g

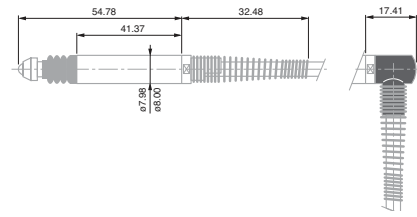
Probes, Unbranded Execution, Series 410 ± 1 mm, 2,5 mm Range, Short Body

Universal probes for common but constraining applications.

- 8 mm diameter probe body that can be clamped over its entire length.
- Ball bearing measuring bolt.
- Hardened steel body, hard-chrome plated.
- Degree of protection to IP62.
- Flexible axial cable exit fitted with a steel spring to prevent the cable from breaking.
- Other probes compatible with measuring equipment from other makers also available on request.



410



410 and accessory with radial cable exit (delivered with probe)

No	=	Measuring range, mm	Nominal measuring force*, N	Bolt retraction	Sealing bellows
96410012	410	± 1	0,60	Mechanical	Nitrile

=	Measuring bolt travel, mm	Max. permissible error for deviations in linearity, µm (L en mm)	Repeatability, µm	Setting of lower stop of the measuring bolt***, mm (factory setting)	Cable output	Data sheet No.
410	2,5	0,2 % (for a measuring span of ± 1 mm)	0,1	Adjustable from -1,2 to 0 (factory setting -1,08)	Axial and radial	F96410012

* 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.

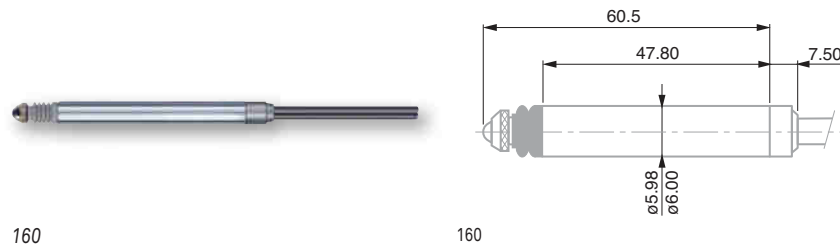
*** Distance from electrical zero.



Probes, Unbranded Execution, Series 160 ± 1 mm, 3,3 mm Bolt Travel, Short Body, Ø 6 mm

Compact size and robust construction makes these probes ideal for continuous use.

- Probe body Ø 6 mm.
- Clamping possible over entire length.
- Measuring bolt guided on ball bearing.
- Hard-chrome plated probe body, hardened steel.
- Protection level: IP62 as per IEC 60529.
- Executions compatible with measuring equipment from other suppliers available on request.



160

160

		Measuring range, mm	Nominal measuring force*, N	Bolt retraction	Sealing bellows
96160013	160	± 1	0,60	Mechanical	Viton

Measuring bolt travel, mm	Max. permissible error for deviation in linearity, µm (L in mm)	Repeatability, µm	Setting of lower stop of measuring bolt***, mm (factory setting)	Cable output	Data sheet No.	
160	3,3	0,2 % (for a measuring span of ± 1 mm)	0,1	Adjustable from -1,2 to 0 (factory setting -1,08)	Axial	F96160013

* 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.

DIN 32876 Part 1

Nickel-plated housing. Stainless steel measuring bolt, hardened. Sealing bellows: Viton = highly resistant fluoroelastomer.

Probe body Ø 6 mm. Measuring bolt guided on ball bearing. Distance between the lower stop and electrical zero adjustable. Interchangeable measuring insert. Thread M2. Carbide ball tip Ø 3 mm. 2 m long cable. DIN 45322 5-pin connector.

Supply frequency: 13 kHz (± 5 %) Max. mechanical frequency**: 60 Hz.

0,025 µm/°C

20 ± 0,5°C

Protection level: IP62 (IEC 60529)

Mobile weight: 2,5 g



N DIN 32876 Part 1

Nickel-plated housing. Stainless steel measuring bolt, hardened. Sealing bellows: Nitrile = resistant elastomer.

A Probe body Ø 8 mm. Measuring bolt guided on ball bearing. Adjustable distance between lower bolt and electrical zero. Interchangeable measuring insert. Thread M2,5. Carbide ball tip Ø 3 mm. Cable length: 2 m DIN 45322 5-pin connector.

Supply frequency: 13 kHz (± 5 %) Max. mechanical frequency**: 60 Hz..

0,025 µm/°C

20 ± 0,5°C

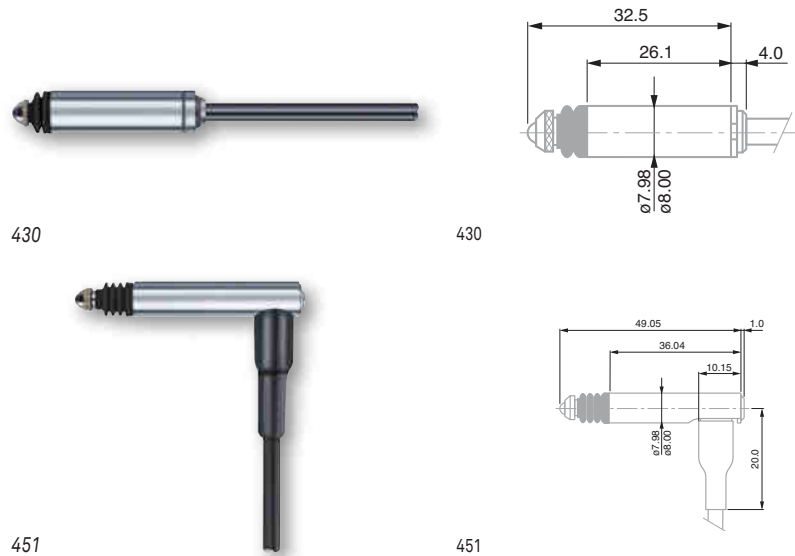
Level of protection: IP65 (IEC 60529)

Mobile weight: 1,9 g (Series 439)
Mobile weight: 3,0 g (Series 451)

Probes, Unbranded Execution, Series 430 and 451, ± 0,5 mm, 1,25 et 2,10 mm Measuring Bolt Travel, Miniature

Their compact size and robust construction make them the ideal probes for a frequent use.

- Probe body Ø 8 mm.
- Clamping possible over its entire length.
- Measuring bolt on ball bearing guide.
- Hard chrome-plated probe body, hardened steel.
- Level of protection: IP62 as per IEC 60529.
- Probes compatible with measuring equipment from other suppliers also available on request.



			Measuring range, mm	Nominal measuring force*, N	Bolt retraction	Sealing bellows
96430029	430	± 0,5	0,75	Mechanical	Nitrile	
96441041	451	± 0,5	0,60	Mechanical	Nitrile	

	Measuring bolt travel, mm	Max. permissible error for deviations in linearity, µm (L in mm)	Repeatability, µm	Setting of lower stop of measuring bolt***, mm (factory setting)	Cable output	Data sheet Nb
430	1,25	0,2 % (for a measuring span of ± 0,5 mm)	0,2	Adjustable from -0,7 to 0 (factory setting -0,58)	Axial	F96430029
451	2,10	0,2 % (for a measuring span of ± 0,5 mm)	0,1	Fixed stops (factory setting: -0,58)	Radial	F96441041

* 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.

