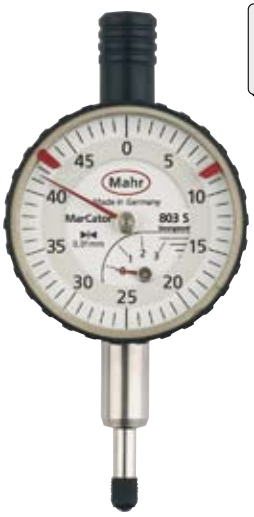
Precision Small Dial Indicators 803 / 805 DIN style

803 A

805 A

SHOCK PROOF



803 S

Features

Small Dial Indicator 803 A
Standard version

- High precision gears and pinions
- Lifter protection cap on the upper end of the measuring spindle
- Adjustable tolerance markers
- Chrome-plated housing

Small Dial Indicator 805 A
Standard version

- High precision gears and pinions
- Lifter protection cap on the upper end of the measuring spindle
- Adjustable tolerance markers
- Chrome-plated housing

Small Dial Indicator 803 S
Shockproof version

- High precision gears and pinions
- Lifter protection cap on the upper end of the measuring spindle
- Adjustable tolerance markers
- Chrome-plated housing

All indicators delivered in plastic case

Technical Data

	Range mm	Readings mm	Dial face dia. mm	Overtravel mm	Mounting shank dia. mm	Measuring force N	Accuracy DIN 878	Order no.
803 A	3	0.01	34	0.1	8h6	0.7 - 1.1	●	**4324050**
805 A	5	0.01	34	0.1	8h6	0.7 - 1.1	●	**4324060**
803 S	3	0.01	34	0.1	8h6	0.7 - 1.1	●	**4324000**
803 SW	3	0.01	34	0.1	8h6	0.7 - 1.6	●	**4326000**
803 SB	0.4 (±0.2)	0.01	34	4.5	8h6	1	●	**4324250**
803 AZ	***.120"***	***.0005"***	***1.4"***	***.008"***	8h6	0.7 - 1.1		**4324900**

Precision Small Dial Indicators 803 / 805 DIN style

IP54

SHOCK PROOF

803 SW

SHOCK PROOF

803 SB

803 AZ

Features

Small Dial Indicator 803 SW
Waterproof and oil proof

Design features identical to 803 S, with the following exceptions:
- Hermetically sealed upper protective measuring spindle cap as well as bezel and transparent dial cover; sealed with O-rings
- Measuring spindle sealed with rubber sleeve, thus preventing contamination by liquids and impurities

Dial Indicator 803 SB
with limited measuring range

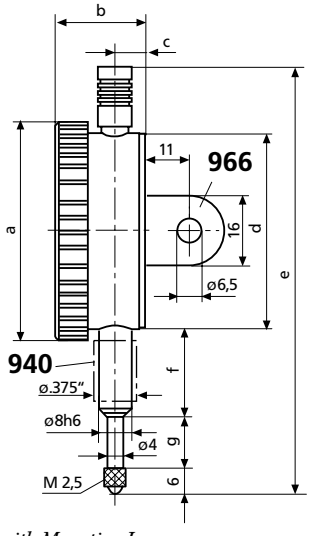
Design features identical to 803 S, with the following exceptions:
- Limited measuring range (0.4 mm) for error-free readings
- Large overtravel (approx. 4.5 mm), for easier insertion of test items in measuring devices
- Hermetically sealed upper protective measuring spindle cap

Small Dial Indicator 803 AZ
Inch version

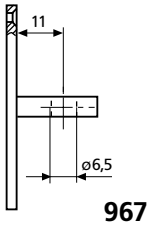
Design features identical to 803 A, with the following exception:
- The scope of supply includes an Adapter Bush 940 for adapting mounting shank 8h6 mm to inch bore .375"

Dimensions according to DIN EN ISO 463

mm	a	b	c	d	e	f	g
803 A	ø 40	20.6	6.8	ø 37	83	15.5	8
805 A	ø 40	20.6	6.8	ø 37	83	15.5	8
803 S	ø 40	20.6	6.8	ø 37	80	15	5.5
803 SW	ø 44	21.6	7.1	ø 37	86	15	11
803 SB	ø 40	20.6	6.8	ø 37	83	15.5	8
803 AZ	ø 40	20.6	6.8	ø 37	83	15.5	8



Shown with Mounting Lug



967

Accessories

		Order no.
Adapter Bush for adapting mounting shank 8h6 mm to inch bore .375"	**940**	**4310103**
Splash Guard Cover for bezel dia. 40 mm	**956**	**4373021**
Mounting Lugs		
Bore perpendicular to mounting shank	**966**	**4375020**
Bore parallel to mounting shank	**967**	**4375021**

Contact Points and Accessories for Dial Indicators, Dial Comparators and Probes

Standard Contact Points 901
Ball dia. 3 mm

Catalog no.		Order no.
901	with steel ball	**4360001**
901 H	with carbide ball	**4360002**
901 R	with ruby ball	**4360003**

Spherical Contact Points 902 — Flat Contact Points 903

Length mm	**902** Steel **Order no.**	**902 H** Carbide contact face **Order no.**	**903** Steel **Order no.**	**903 H** Carbide tipped **Order no.**
4	**4360007**	**–**	**4360070**	**–**
6	**4360009**	**–**	**4360071**	**4360101**
8	**4360010**	**4360040**	**4360072**	**4360102**
10	**4360011**	**4360041**	**4360073**	**4360103**
12	**4360012**	**4360042**	**4360074**	**4360104**
15	**4360013**	**4360043**	**4360075**	**4360105**
20	**4360014**	**4360044**	**4360076**	**4360106**
25	**4360015**	**4360045**	**4360077**	**4360107**
30	**4360016**	**4360046**	**4360300**	**4360110**
35	**4360017**	**4360047**	**4360078**	**4360108**
40	**4360019**	**4360049**	**4360310**	**4360111**
45	**4360026**	**4360050**	**4360303**	**–**
50	**4360018**	**4360048**	**4360079**	**4360109**
55	**4360031**			
65	**4360035**			
75	**4360020**			
85	**4360036**			
95	**4360029**			

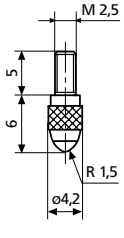
Ball Contact Point 906 H
with carbide ball. accuracy ball dia. 0/-6µm

Ball dia. d mm	*l* mm	Order no.	Ball dia. d mm	*l* mm	Order no.
1	8.5	**4360150**	5.5	9	**4360161**
1.25	8.5	**4360151**	6	9	**4360162**
1.5	8.5	**4360152**	6.35 ***(1/4")***	9	**4360163**
1.75	8.5	**4360153**	6.5	10	**4360164**
2	8.5	**4360154**	7	10	**4360165**
2.5	8.5	**4360155**	7.5	11	**4360166**
3	8.5	**4360156**	8	11	**4360167**
3.5	8.5	**4360157**	8.5	12	**4360168**
4	8.5	**4360158**	9	12	**4360169**
4.5	8.5	**4360159**	10	13	**4360170**
5	9	**4360160**			

Contact Rollers 909
Concentricity error 3 µm

		Order no.
Cylindrical Roller	**909 A**	**4360220**
Radiused Roller, R = 5 mm	**909 B**	**4360221**

901



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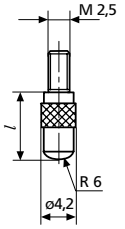

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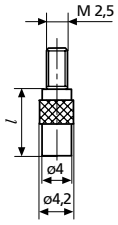

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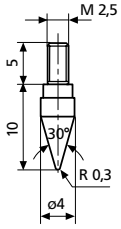
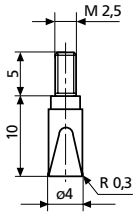
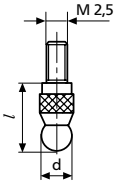


905



906 H



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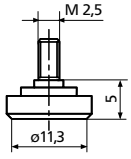
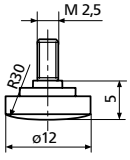
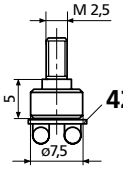


908 H



913

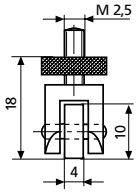


426 M

Special Contact Points

		Order no.
Conical Contact Points, Steel	**904**	**4360130**
Carbide tipped	**904 H**	**4360131**
Wedge Shaped Contact Points, Steel	**905**	**4360140**
Carbide tipped	**905 H**	**4360141**
Flat Contact Points, Steel, A = 1 cm²	**907**	**4360200**
Carbide tipped, dia. 7 mm	**907 H**	**4360201**
Spherical Contact Points, Steel	**908**	**4360210**
Carbide tipped	**908 H**	**4360211**
Flat Contact Point, for mounting Pin Gage Holder 426 M for measuring threads using three-wire method	**913**	**4360400**

909 A

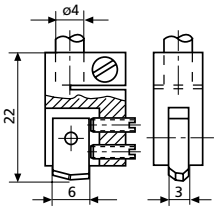


Contact Points and Accessories for Dial Indicators, Dial Comparators and Probes

Measuring Attachment 910 H

		Order no.
with parallel adjustable carbide blades	910 H	4360230

910 H

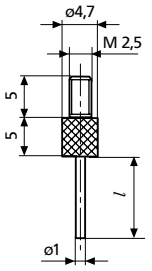


Pin Contact Point 911

dia. 1 mm, flat

Length l mm	Order no.	Length l mm	Order no.
15	4360280	35	4360284
20	4360281	40	4360285
25	4360282	50	4360286
30	4360283		

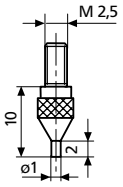
911



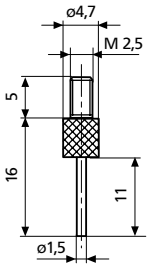
Pin Contact Point 911 H

		Order no.
Carbide tipped, dia 1 mm, flat	911 H1	4360240
Carbide tipped, dia 1.5 mm, flat	911 H2	4360241

911 H1



911 H2



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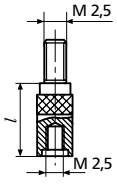
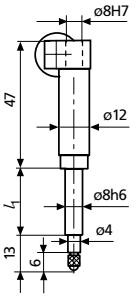


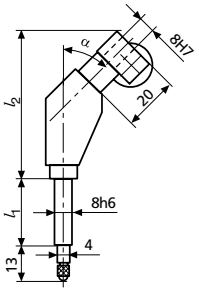
Measuring Spindle Extensions 912

Length l mm	Order no.	Length l mm	Order no.
10	4360250	35	4360254
15	4360251	50	4360255
20	4360252	75	4360256
25	4360253	100	4360257

941 G



941 W



Transmission error with the 941 W max. 1%; for travel 3 mm = 0.03 mm

Special Holder 941

For all types of measuring equipment
For placing a dial indicator at a certain distance or angle
Travel of the measuring spindle 3 mm
Contact Point 901 (interchangeable)

Straight Holder 941 G Mounting shank length l_1 mm	Order no.	Angular Holder 941 W Order no. Angle α=45°	l_2 mm	Order no. Angle α=60°	l_2 mm	Order no. Angle α=90°	l_2 mm
25	4365000	4365010	53.7	4365020	49.3	4365030	34.5
50	4365001	4365011		4365021		4365031	
75	4365002	4365012		4365022		4365032	

Sensor Level 943

	Order no.
For testing concentricity in bore holes as well as difficult to reach outside diameters To be inserted in a measuring stand with a lifting device Contact Point 901 interchangeable Travel ±1 mm	4367000

943