

DIGITAL INDICATORS

S_DIAL

A pioneer of the 100% digital indicator, Sylvac probably offers the widest range of digital indicators in the market with unrivalled precision measurement.

The SYLVAC electronic indicator program covers the entire range of mechanical indicators with resolutions 0.1 to 0.0001mm and measuring range up to 150mm, and with much better accuracy.

Sylvac inductive measuring system (patented)

Wireless Bluetooth® transmission available

Power supply: Lithium battery 3V, Type CR 2032

Operational temperature: +5 to +40°C

mm/inch conversion



Digital indicators

S_Dial

SUMMARY OF ALL TYPES

B		S233							S234		BASIC				S_Dial WORK											
		905.4121	905.4125	905.4140	905.4521	905.4525	905.4540	905.4511	905.4515	905.4527	905.4321	905.4322	805.1201	805.1301	805.1401	805.1501	805.1601	805.1621	805.5307	805.5507	805.5305	805.5505	805.5625	805.7301	805.7201	PLC
RANGE		0.5 mm									●															
0.8 mm											●															
5 mm			●			●	●	●																		
12.5 mm		●	●		●	●				●			●	●					●	●		●	●			
25 mm															●	●				●	●				●	
50 mm															●	●										
100 mm																										
150 mm																										
RESOLUTION		0.01 mm											●												●	●
0.001 mm					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
MECHANIC																										
Diameter 8 mm h6		●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	
Diameter 25mm g7																										
Dove tail		●	●	●	●	●	●	●	●	●	●	●	●	●												
M1.4 contact point																										
M2.5 contact point		●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	
Rubber boot			●			●				●											●	●				
IP51 (IEC 60529)																										
IP54 (IEC 60529)																										
IP65 (IEC 60529)		●	●	●	●	●	●	●	●	●	●															
IP67 (IEC 60529)																					●	●	●	●	●	
DIAL																										
Diameter 44 mm		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Diameter 60 mm																										
Rotating															●	●										
Vertical display				●			●																			
FUNCTIONS																										
mm/inch		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Preset		●	●	●	●	●	●	●	●	●	●			(1)	(1)	(1)	(1)	(1)	(1)	●	●	●	●	●	●	
Preset onMin/Max																										
Measuring direction		●	●	●	●	●	●	●	●	●	●															
Hold		●	●	●	●	●	●	●	●	●	●															
Min / Max / Delta												●	●	●												
Tolerances																										
Absolute function (ABS)		●	●	●	●	●	●	●	●	●	●															
Absolute system S.I.S*																										
Auto off		●	●	●	●	●	●	●	●	●	●															
Analog display												●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Setting by PC																										
Programmable menus																										
Powered by connector		●	●	●	●	●	●	●	●	●	●															
Multiplication factor																										
Ref I / II																										

Digital indicators

S_Dial

SUMMARY OF ALL TYPES

	S_Dial WORK								NANO & NANO SMART				ANALOG NANO SMART		S_Dial PRO BASIC																	
	ADVANCED				Smart				805.5306		805.5506		805.6306		805.6506		805.6307		805.6507		805.8601		805.8701		805.8602		805.8501		805.8502		805.8661	
RANGE	805.5201	805.5301	805.5401	805.5501	805.5601	805.5621	805.5641	805.5661	805.5671	805.5681	805.6301	805.6501	805.6621	805.6661	805.5306	805.5506	805.6306	805.6506	805.6307	805.6507	805.8601	805.8701	805.8602	805.8501	805.8502	805.8661						
0.5 mm																																
0.8 mm																																
5 mm																																
12.5 mm	●	●														●																
25 mm		●	●													●																
50 mm			●	●											●																	
100 mm					●	●									●											●						
150 mm						●	●																									
RESOLUTION																																
0.01 mm	●		●		●		●		●		●		●		●		●		●		●		●		●		●					
0.001 mm		●		●		●		●		●		●		●		●		●		●		●		●		●		●				
0.0001 mm																	●	●	●	●	●	●	●	●	●	●	●	●	●			
MECHANIC																																
Diameter 8 mm h6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Diameter 25 mm g7																							●	●	●	●	●					
Spring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
M1.4 contact point																																
M2.5 contact point	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Rubber boot																																
IP51 (IEC 60529)																							●	●	●	●	●	●				
IP54 (IEC 60529)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
DIAL																																
Diameter 44 mm																																
Diameter 60 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Rotating	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
FUNCTIONS																																
mm/inch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Preset	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Preset on Min/Max																							●	●	●	●	●	●				
Measuring direction	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Hold	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Min / Max / Delta	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Tolerances	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Absolute system S.I.S*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Auto off	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Analog display																							●	●	●	●	●					
Bluetooth® technology																																
Setting by PC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Programmable menus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Powered by connector	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Multiplication factor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Ref I / II	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				

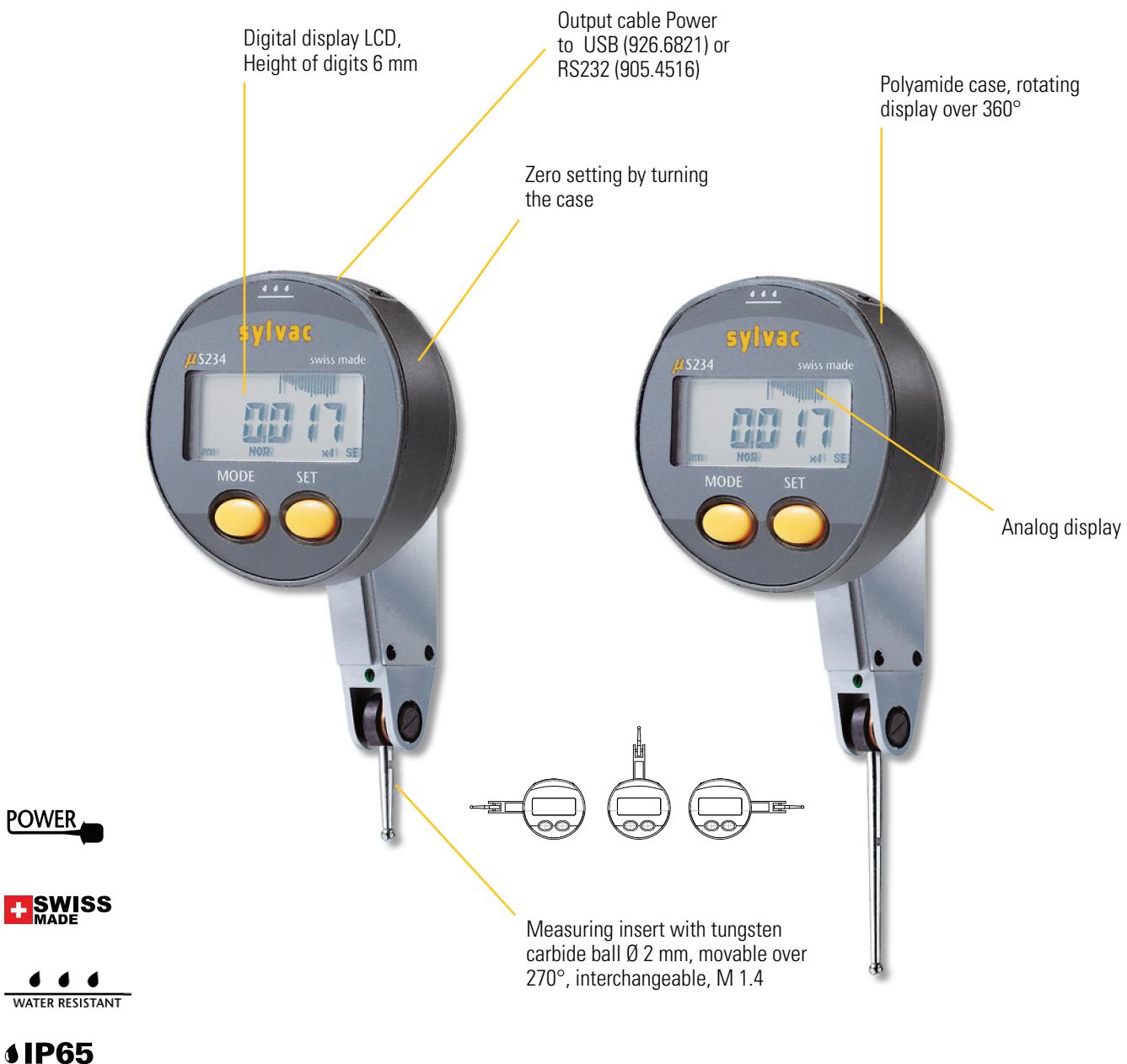
Digital test indicators

S_Dial S234

DESCRIPTION

B

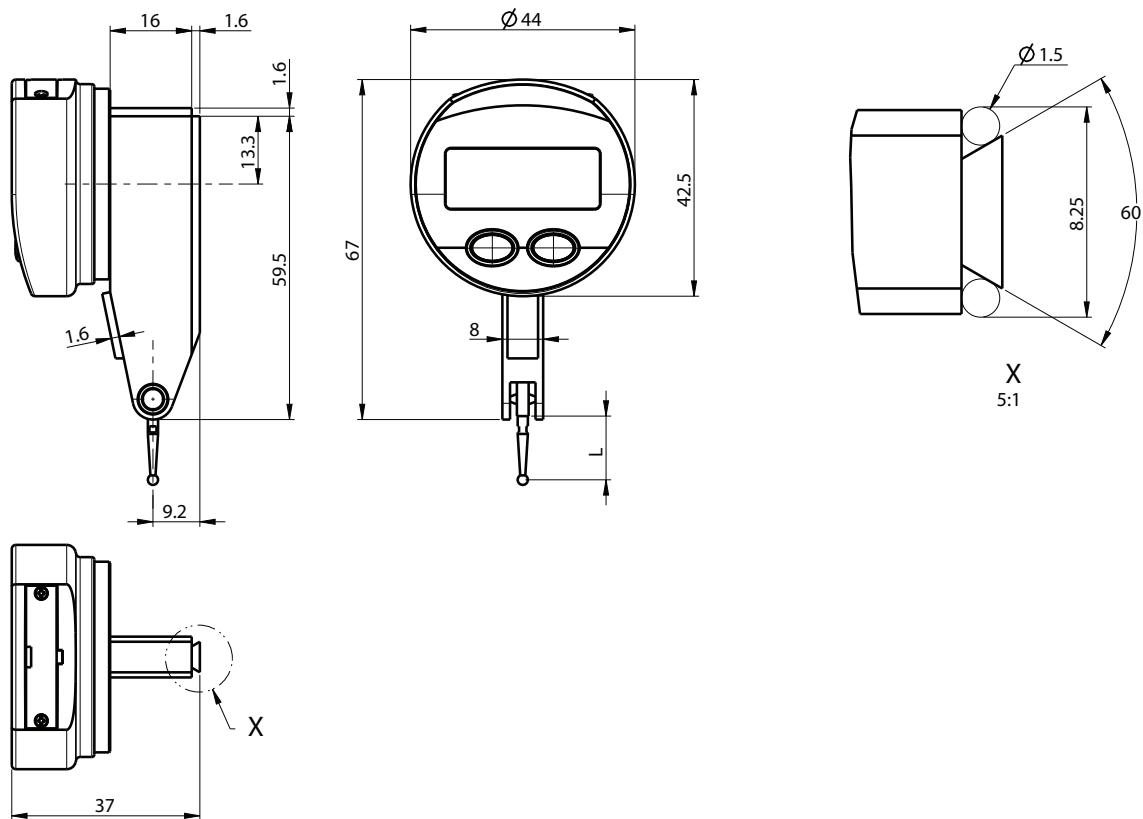
- Digital and analog display
- Water and coolant resistant IP65
- Data output RS 232 combined with external power
- Automatic switch OFF
- Stem Ø 8 mm and dovetail back
- Rotating display over 360°



Digital test indicators

S_Dial S234

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		905.4321	905.4322
Measuring range	mm	0.8	0.5
Probe length	mm	12.5	36.5
Max Error fe	µm	10	10
Hysteresis fu	µm	3 ¹⁾	4 ¹⁾
Resolution	mm	0.001	0.001
Repeatability	µm	3	3
Measuring force	N	0.13 ± 15%	0.07 ± 15%
Weight		75	75
Protection rating according to IEC 60529		IP65	
Output data		USB / RS232 ²⁾	
Zero setting		●	
min / max / delta display		●	
Analog scale range ratio		●	
Selection of resolution		●	
Preset		max 99.999	

¹⁾ ± 1 digit

²⁾ see cables chapter

Digital test indicators

S_Dial S234

DISPLAY

B

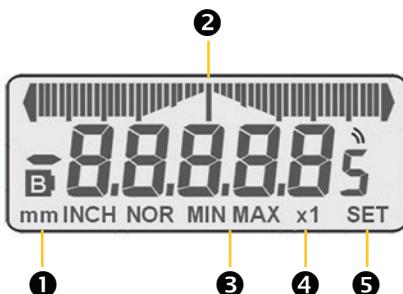
① Direct mm/inch conversion

② Analog display

③ Min/max/delta mode

④ Analogic resolution display

⑤ Zero setting



BASIC INSTRUMENT

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Stem Ø 8 mm

APPLICATIONS



Run-out measurement



Checking the alignment on milling machine.



Perpendicularity measurement with a S234 mounted on a Hi_Gage ONE

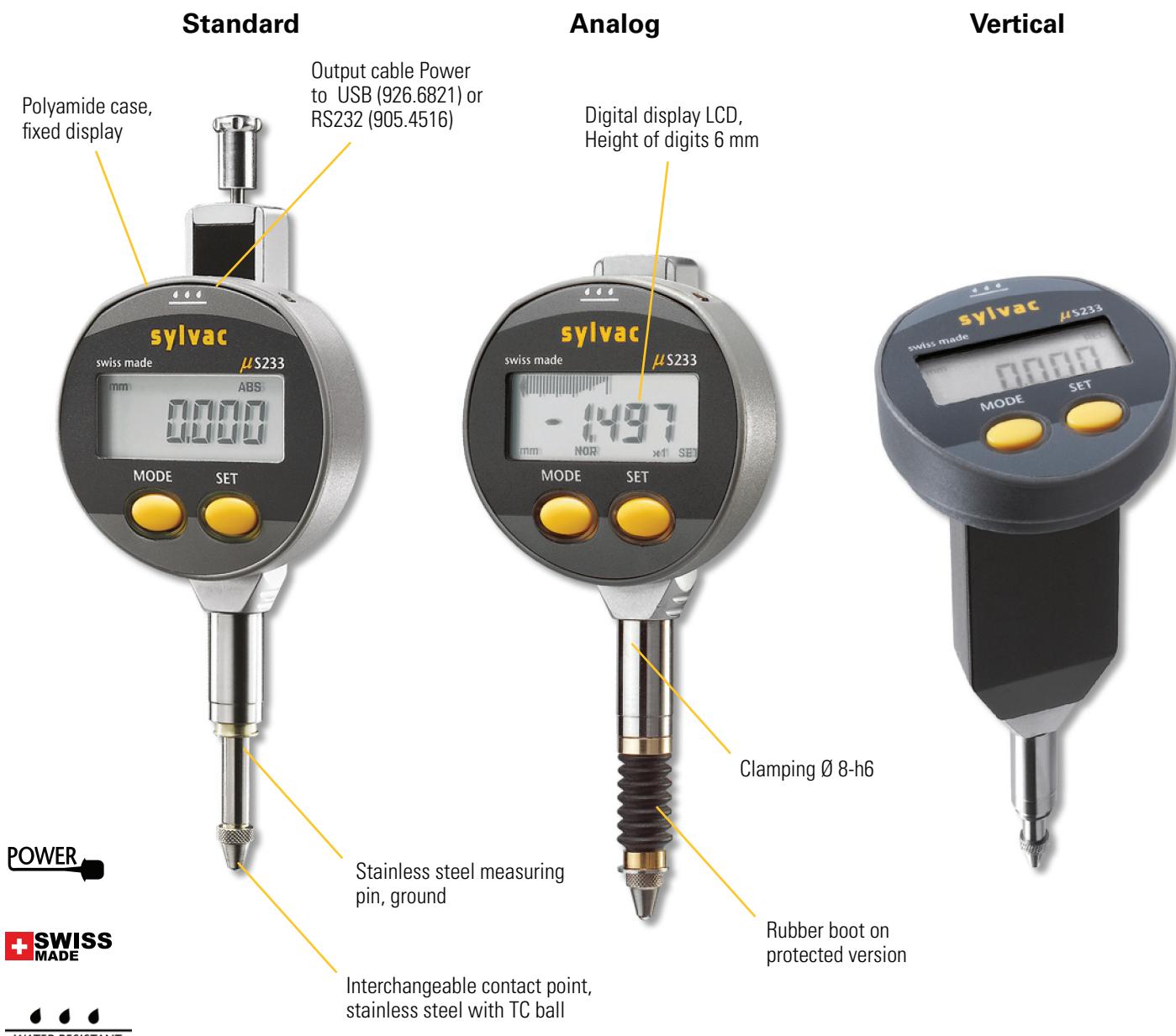
Mini digital indicators

S_Dial S233

DESCRIPTION

B

- Compact, small diameter ($\varnothing 44$ mm)
- Water and coolant resistant, protection rating IP65 according to IEC 60529
- Data output RS 232 combined with external power supply.
- Interchangeable contact point M2.5
- Clamping stem $\varnothing 8\text{-h}6$ of hardened and ground stainless steel. Dovetail back
- Automatic power shut down

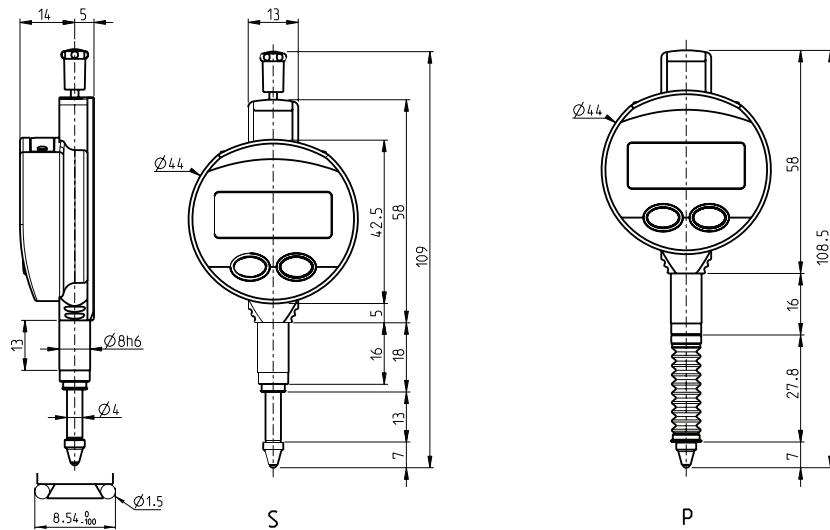


Mini digital indicators

S_Dial S233

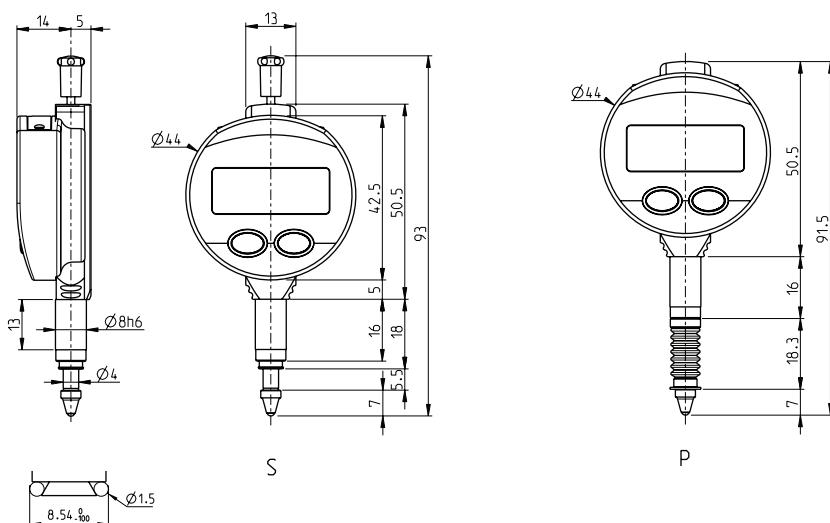
DIMENSIONAL DRAWINGS

Standard

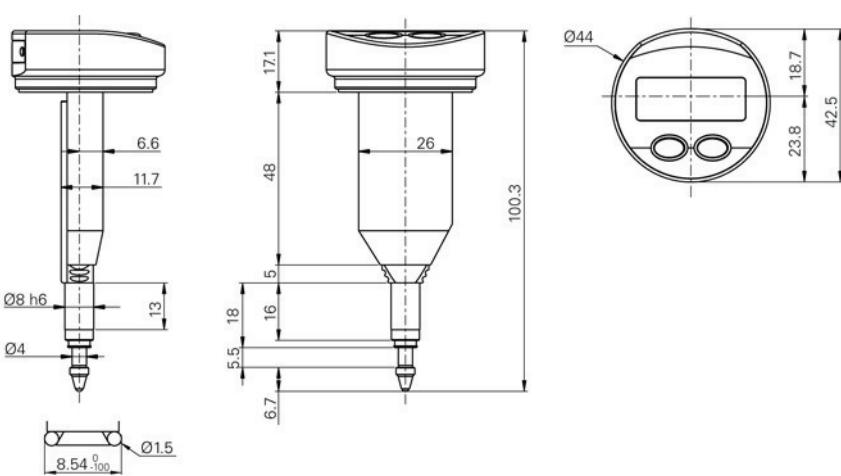


B

Analog



Vertical



S = standard

P = protected

Mini digital indicators

S_Dial S233

TECHNICAL SPECIFICATIONS

B		905.4140	905.4540	905.4511	905.4515
Measuring range	mm	5	5	5	5
Display 90°		●	●	---	---
Analog scale		---	---	●	●
Resolution	mm	0.01	0.001	0.001	0.001
Execution ³⁾		S	S	S	P
Max. Error fe	µm	10 ¹⁾	5	4	4
Repeatability	µm	2	2	2	2
Measuring force	N	0.50 - 0.65 ²⁾	0.50 - 0.65 ²⁾	0.50 - 0.65 ²⁾	0.60 - 1.20 ²⁾
Zero setting		●	●	●	●
REL and ABS measurement		●	●	---	---
Resolution selection		---	●	●	●
PRESET = (max. 130 mm)		●	●	●	●
Min / max / delta display		---	---	●	●
Selection of measuring direction		●	●	---	---
Output data				USB / RS232 ⁴⁾	
IP rating				IP65	

	905.4121	905.4125	905.4521	905.4525	905.4527
Measuring range	mm	12.5	12.5	12.5	12.5
Analog scale		---	---	---	---
Resolution	mm	0.01	0.01	0.001	0.001
Execution ³⁾		S	P	S	P
Max. Error fe	µm	10 ¹⁾	10 ¹⁾	5	5
Repeatability	µm	2	2	2	2
Measuring force	N	0.5 - 0.90 N	0.6 - 1.3 N	0.5 - 0.90 N	0.6 - 1.3 N
Zero setting				●	
REL and ABS measurement				●	
Resolution selection		---	---	●	●
PRESET = (max. 130 mm)				●	
Min / max / delta display				---	
Selection of measuring direction				●	
Multiplication factor			---		●
Output data				USB / RS232 ⁴⁾	
IP rating				IP65	

¹⁾ ± 1 digit

²⁾ Values ± 20%, indicator in vertical position, outgoing measuring spindle

³⁾ S = Standard P = Protected

⁴⁾ see cables chapter

Mini digital indicators

S_Dial S233

BASIC INSTRUMENT

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments with resolution 0.001 mm

B

MEASURING FORCE FOR RANGE 12.5 mm

	S	P
Standard	0.5 - 0.90 N	0.6 - 1.3 N
Low ¹⁾	0.35 - 0.50 N	---
High ¹⁾	1.80 - 2.3 N	---

Tolerance $\pm 20\%$, indicator in vertical position, spindle in outgoing measurement.

¹⁾ on request

APPLICATIONS



Checking of an internal Ø with a mechanical device



Measure of the vertical displacement of an element



Measurement of internal chamfer

Digital indicators

S_Dial WORK

DESCRIPTION

BASIC

B

- Robust construction
- Water and coolant resistant
- **Standard functions (mm/inch, set, direction of measurement)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***



PROXIMITY

POWER

SWISS MADE

WATER RESISTANT

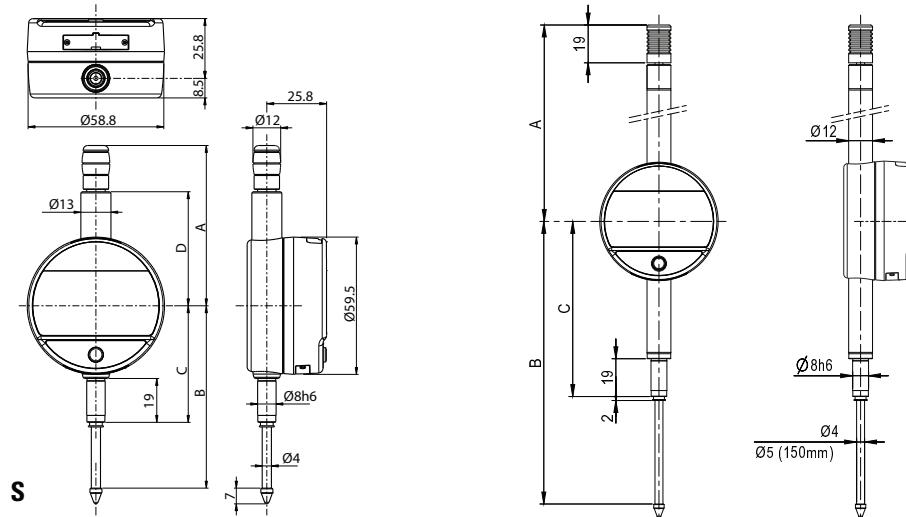
* **SIS** Smart Inductive Systems description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

BASIC



TECHNICAL SPECIFICATIONS

		805.1201	805.1301	805.1401	805.1501	805.1601	805.1621
Measuring range	mm	12.5	12.5	25	25	50	50
Resolution	mm	0.01	0.001	0.01	0.001	0.01	0.001
Max. Error fe	µm	10 ¹⁾	4	10 ¹⁾	5	20 ¹⁾	7
Repeatability	µm			2			
IP rating				IP51			
A	mm	56.7		69.9		121.3	
B	mm	66.1		78.5		142	
C	mm	50.5		50.5		88	
D	mm	36.6		49.4		-	
Output data				USB / RS232			
Programmable by PC				●			
Standard functions (customized by PC)		Preset (only programmable by PC with cable) mm/inch, max 999.999), direction of measurement					

¹⁾ ± 1 digit

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

		S 12.5	S 25	S 50
Standard	N	0.65 - 0.90	0.65 - 1.15	1.1 - 2.6
Low ³⁾	N	0.4 - 0.55	0.45 - 0.9	---
High ³⁾	N	1.0 - 1.6	0.9 - 1.8	---

Tolerance ± 20%, spindle in outgoing measurement position.

³⁾ on request

Digital indicators

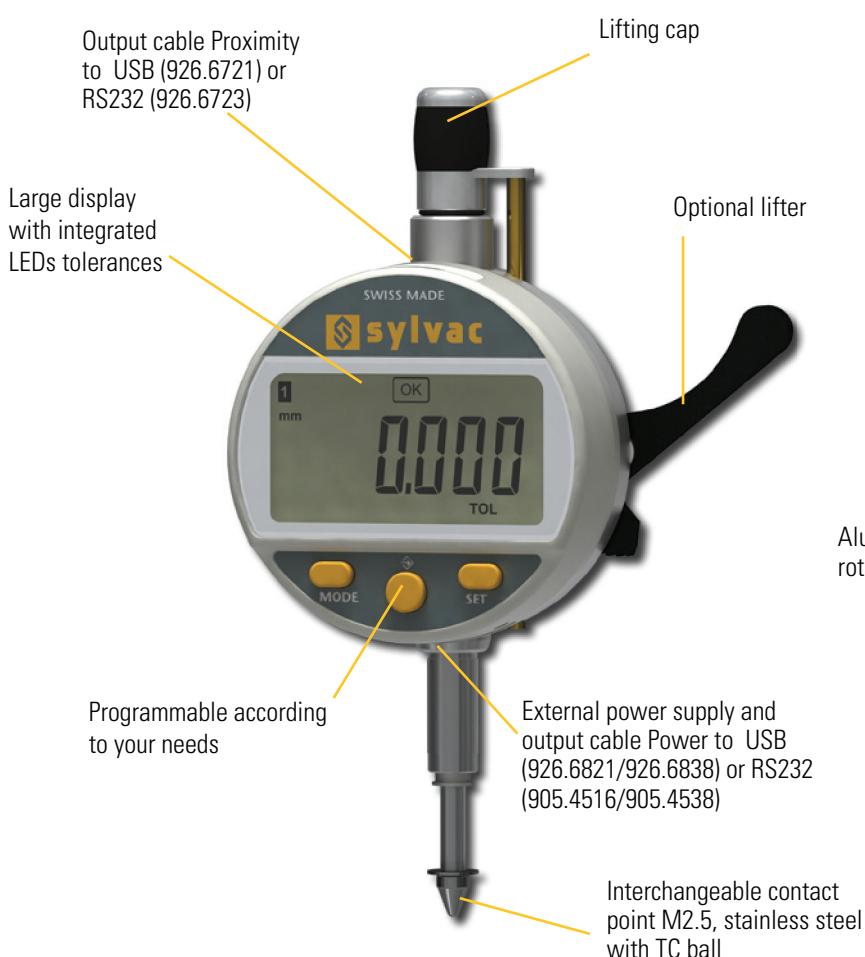
S_Dial WORK

DESCRIPTION

ADVANCED

B

- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 3 µm**



PROXIMITY

POWER

SWISS MADE

WATER RESISTANT

* SIS Smart Inductive System description on page 5

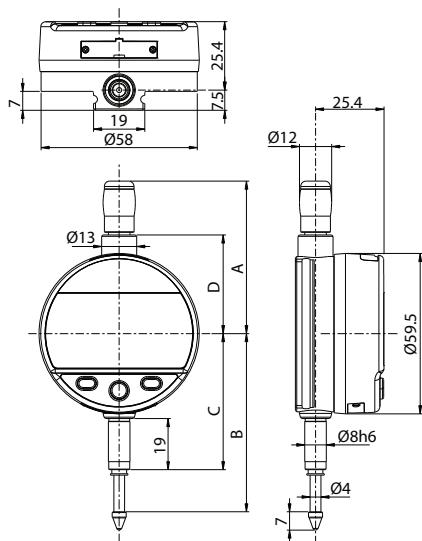


Digital indicators

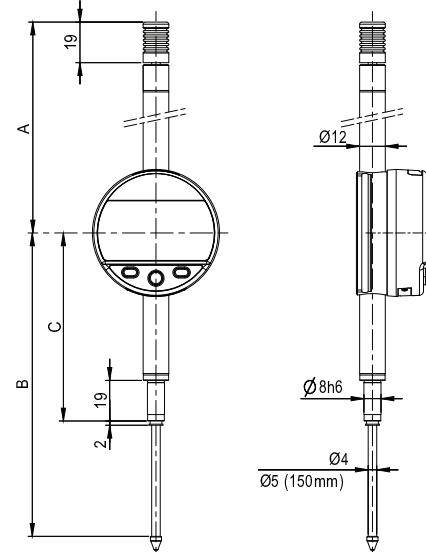
S_Dial WORK

DIMENSIONAL DRAWINGS

ADVANCED



S 12.5-25 mm



S 50-150 mm

B

TECHNICAL SPECIFICATIONS

		805.5201	805.5301	805.5401	805.5501	805.5601	805.5621	805.5641	805.5661	805.5671	805.5681
Measuring range	mm	12.5	12.5	25	25	50	50	100	100	150	150
Resolution	mm	0.01	0.001	0.01	0.001	0.01	0.001	0.01	0.001	0.01	0.001
Max. Error fe	µm	10 ¹⁾	3	10 ¹⁾	4	20 ¹⁾	5	20 ¹⁾	6	20 ¹⁾	10
Repeatability	µm						2				
IP rating							IP54				
A	mm	56.7		69.4		121		172		224	
B	mm	66.1		78.5		142		244		349	
C	mm	50.5		50.5		88		139		193	
D	mm	36.6		49.4		-		-		-	
Output data						USB / RS232					
Programmable by PC						●					
Standard functions (customized by PC)						mm/inch, ref I/II, preset (max 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock					

¹⁾ ± 1 digit

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

		12.5	25	50	100	150
Standard	N	0.65 - 0.9	0.65 - 1.15	1.1 - 2.6	1.8 - 3.8	2.6 - 5.7
Low ²⁾	N	0.4 - 0.55	0.45 - 0.9	---	---	---
High ²⁾	N	1.0 - 1.6	0.9 - 1.8	---	---	---

Tolerance ± 20%, spindle in outgoing measurement position.

²⁾ on request

Digital indicators

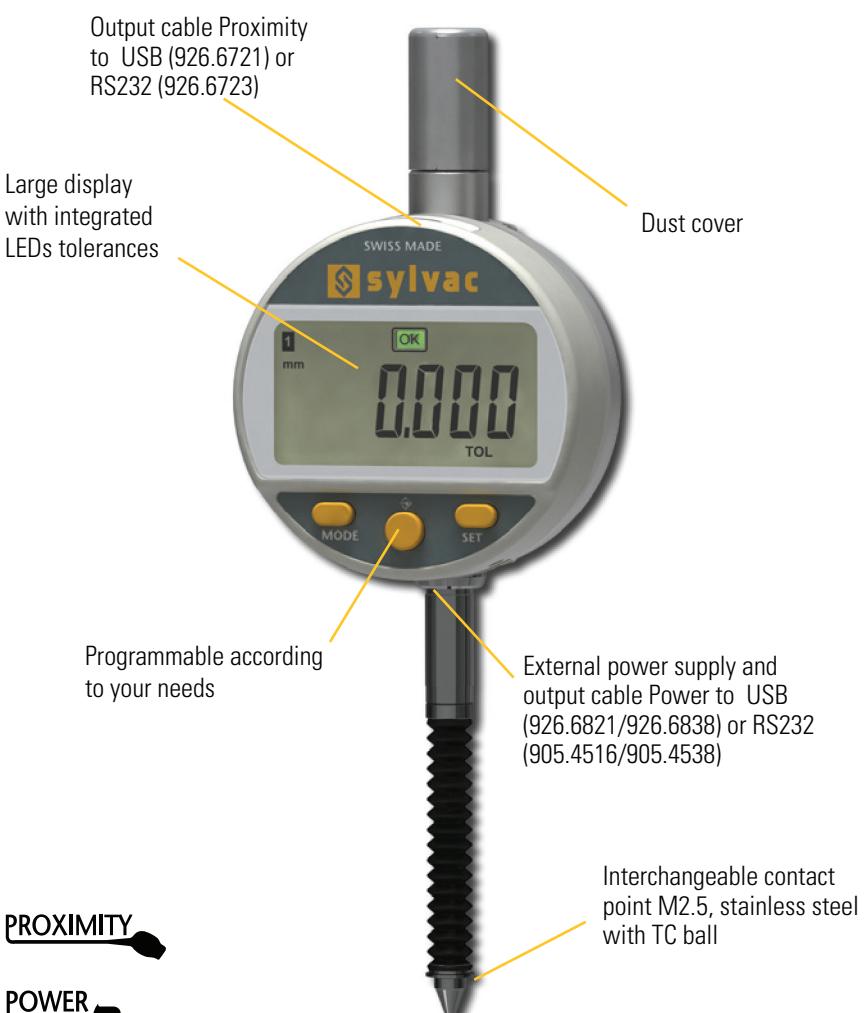
S_Dial WORK

DESCRIPTION

ADVANCED IP67

B

- Robust construction
- Water and coolant resistant
- Protection rating IP67 according to IEC 60529, **even connected**
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S**
- **Maximum error of 3 µm**



PROXIMITY

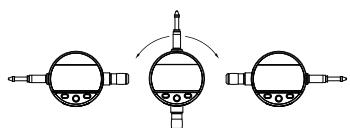
POWER

SWISS MADE

WATER RESISTANT

IP67

* **SIS** Smart Inductive Systems description on page 5

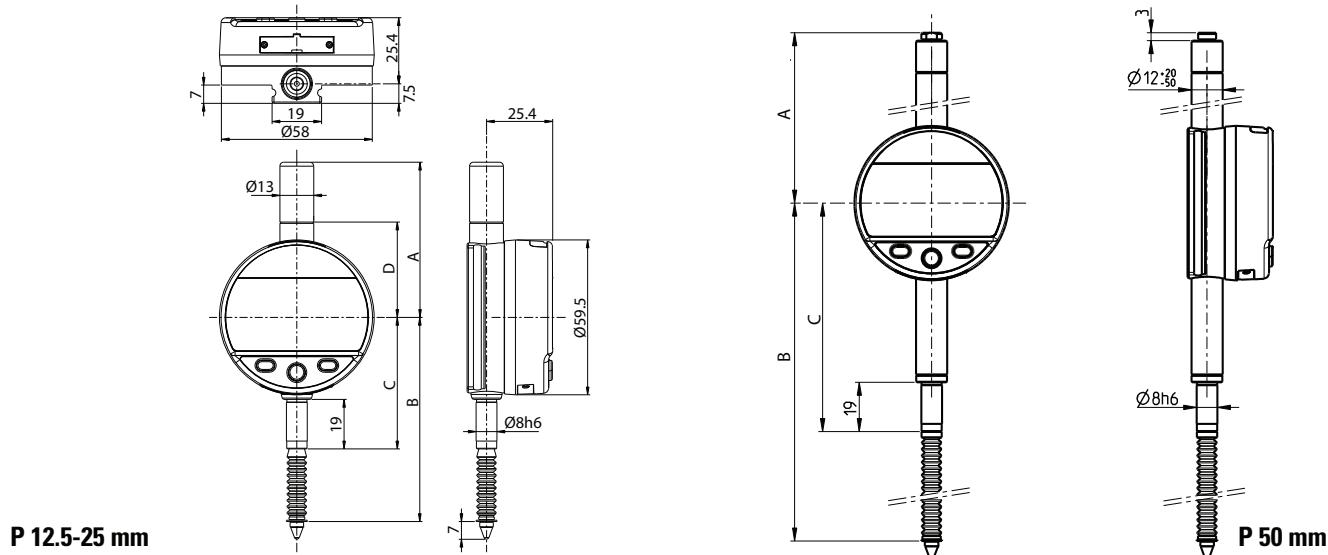


Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

ADVANCED IP67



P 12.5-25 mm

P 50 mm

TECHNICAL SPECIFICATIONS

		805.5305	805.5505	805.5625
Measuring range	mm	12.5	25	50
Resolution	mm	0.001	0.001	0.001
Max. Error fe	µm	3	4	5
Repeatability	µm		2	
IP rating			IP67	
A	mm	59.6	85.4	104.4
B	mm	78.4	99.7	175.3
C	mm	50.5	50.5	88
D	mm	36.6	49.4	-
Output data			USB / RS232	
Programmable by PC			●	
Standard functions (customized by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock		

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

		P 12.5	P 25	P 50
Standard	N	0.7 – 1.4	0.65 – 1.8	0.9 – 2.8
Low ²⁾	N	---	---	---
High ²⁾	N	---	---	---

Tolerance ± 20%, spindle in outgoing measurement position.
²⁾ on request

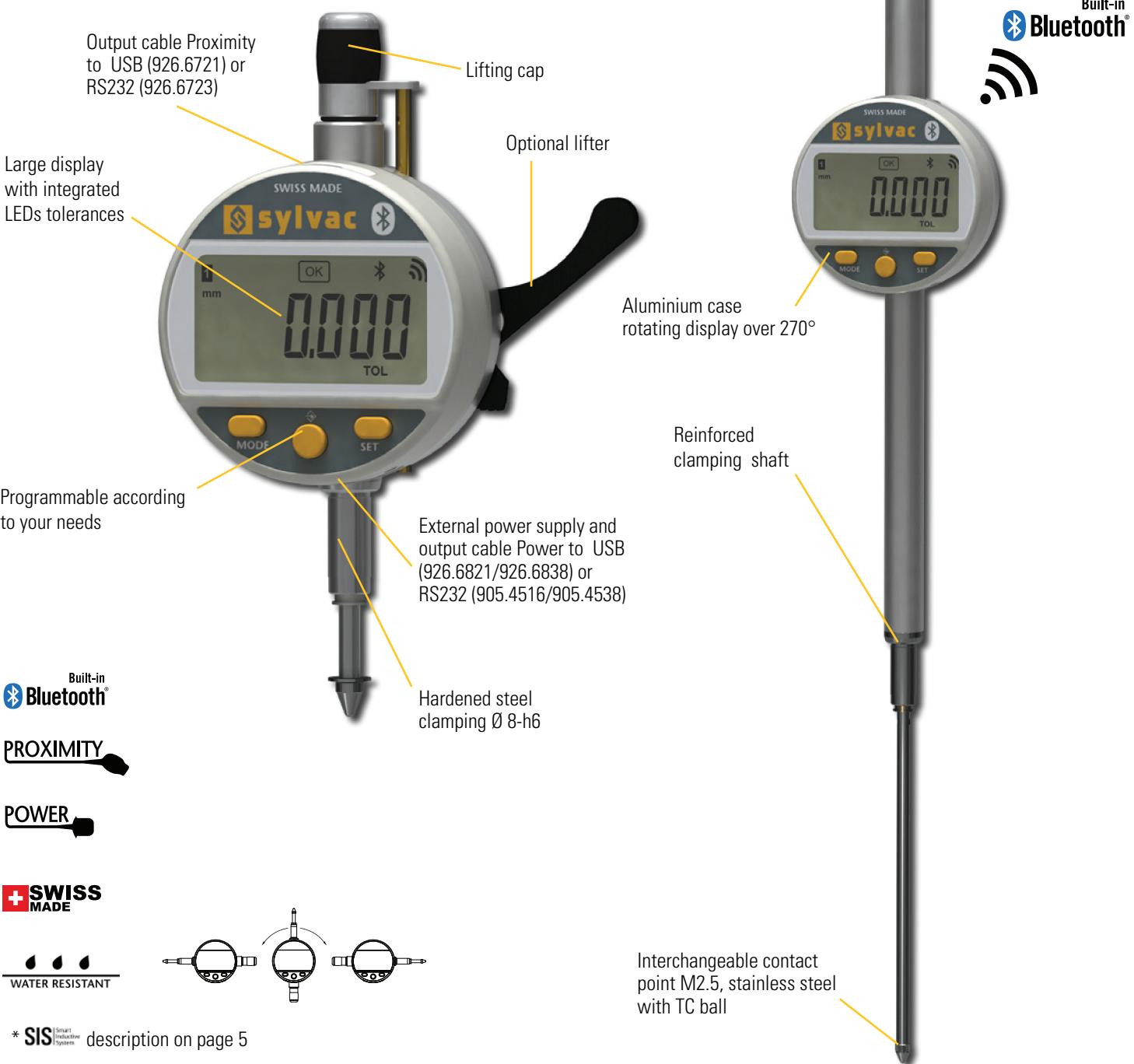
Digital indicators

S_Dial WORK

DESCRIPTION

SMART

- **Integrated Bluetooth® Wireless technology**
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 3 µm**

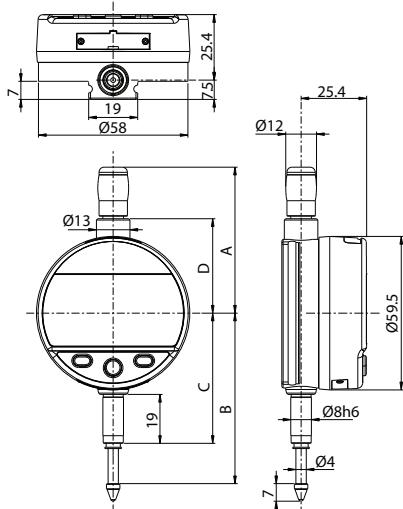


Digital indicators

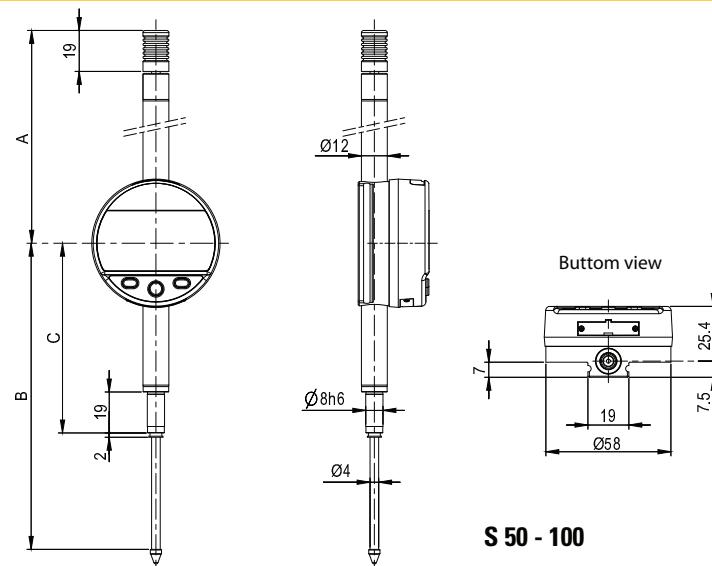
S_Dial WORK

DIMENSIONAL DRAWINGS

SMART



S 12.5 - 25



S 50 - 100

TECHNICAL SPECIFICATIONS

		805.6301	805.6501	805.6621	805.6661
Measuring range	mm	12.5	25	50	100
Resolution	mm	0.001	0.001	0.001	0.001
Max. Error fe	µm	3	4	5	6
Repeatability	µm			2	
IP rating				IP54	
A	mm	56.7	69.4	121	172
B	mm	66.1	78.5	142	244
C	mm	50.5	50.5	88	139
D	mm	36.6	49.4	-	-
Output data		USB / RS232 / Bluetooth® wireless technology*			
Programmable by PC		●			
Standard functions (customized by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock			

¹⁾ ± 1 digit

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

		12.5	25	50	100
Standard	N	0.65 - 0.90	0.65 - 1.15	1.1 - 2.6	1.8 - 3.8
Low ²⁾	N	0.4 - 0.55	0.45 - 0.9	---	---
High ²⁾	N	1.0 - 1.6	0.9 - 1.8	---	---

Tolerance ± 20%, spindle in outgoing measurement position.

²⁾ on request

Digital indicators

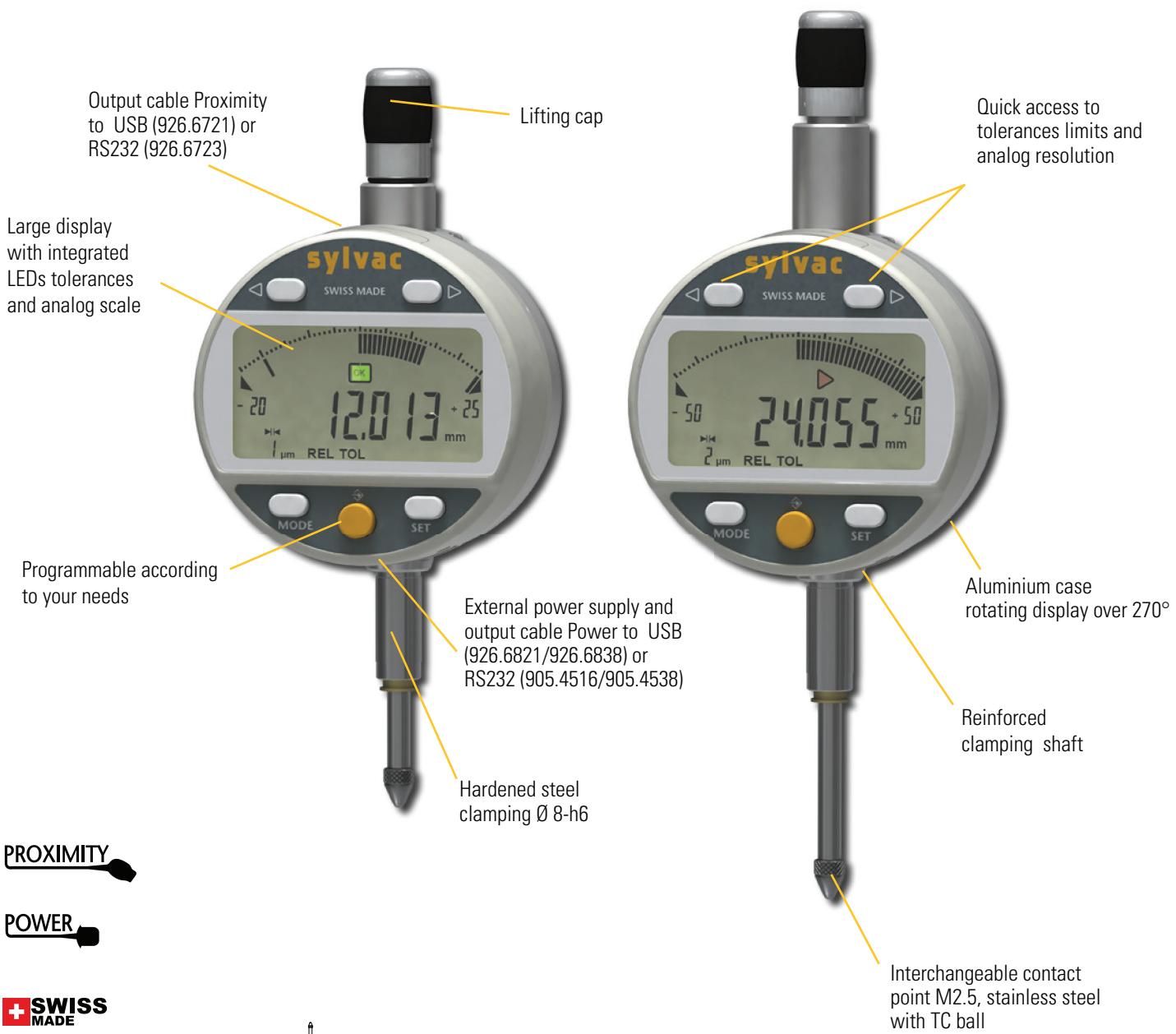
S_Dial WORK

DESCRIPTION

ANALOG

B

- Adaptive analog display (up to 0.2 µm per segment)
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- Maximum error of 3 µm



SWISS MADE

WATER RESISTANT

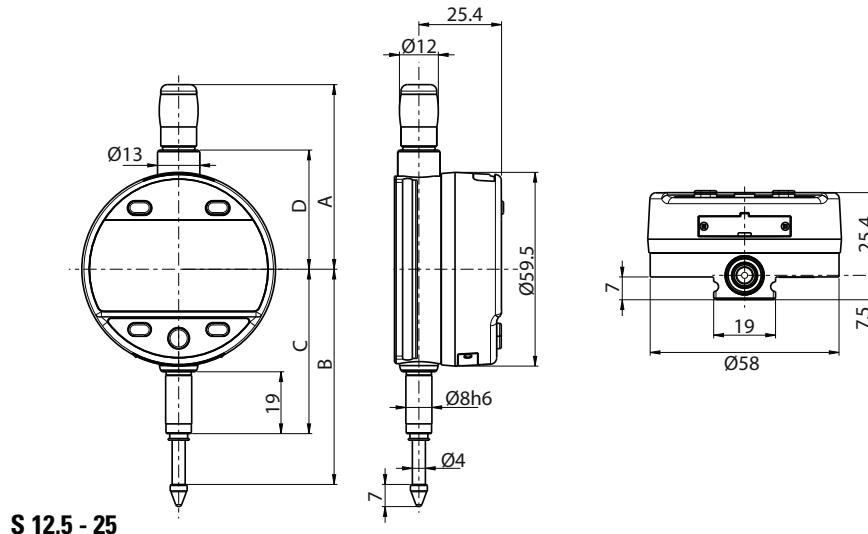
* **SIS** Smart Inductive System description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

ANALOG



B

TECHNICAL SPECIFICATIONS

		805.5307	805.5507
Measuring range	mm	12.5	25
Resolution	mm		0.001
Max. Error fe	µm	3	4
Repeatability	µm		2
IP rating			IP54
A	mm	56.7	69.4
B	mm	66.1	78.5
C	mm	50.5	50.5
D	mm	36.6	49.4
Output data		USB / RS232	
Programmable by PC			●
Standard functions (customized by PC)		mm/inch, preset (max 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock	

¹⁾ ± 1 digit

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

	S 12.5	S 25
Standard	N	0.65 - 0.90
Low ²⁾	N	0.4 - 0.55
High ²⁾	N	1.0 - 1.6

Tolerance ± 20%, spindle in outgoing measurement position.
²⁾ on request

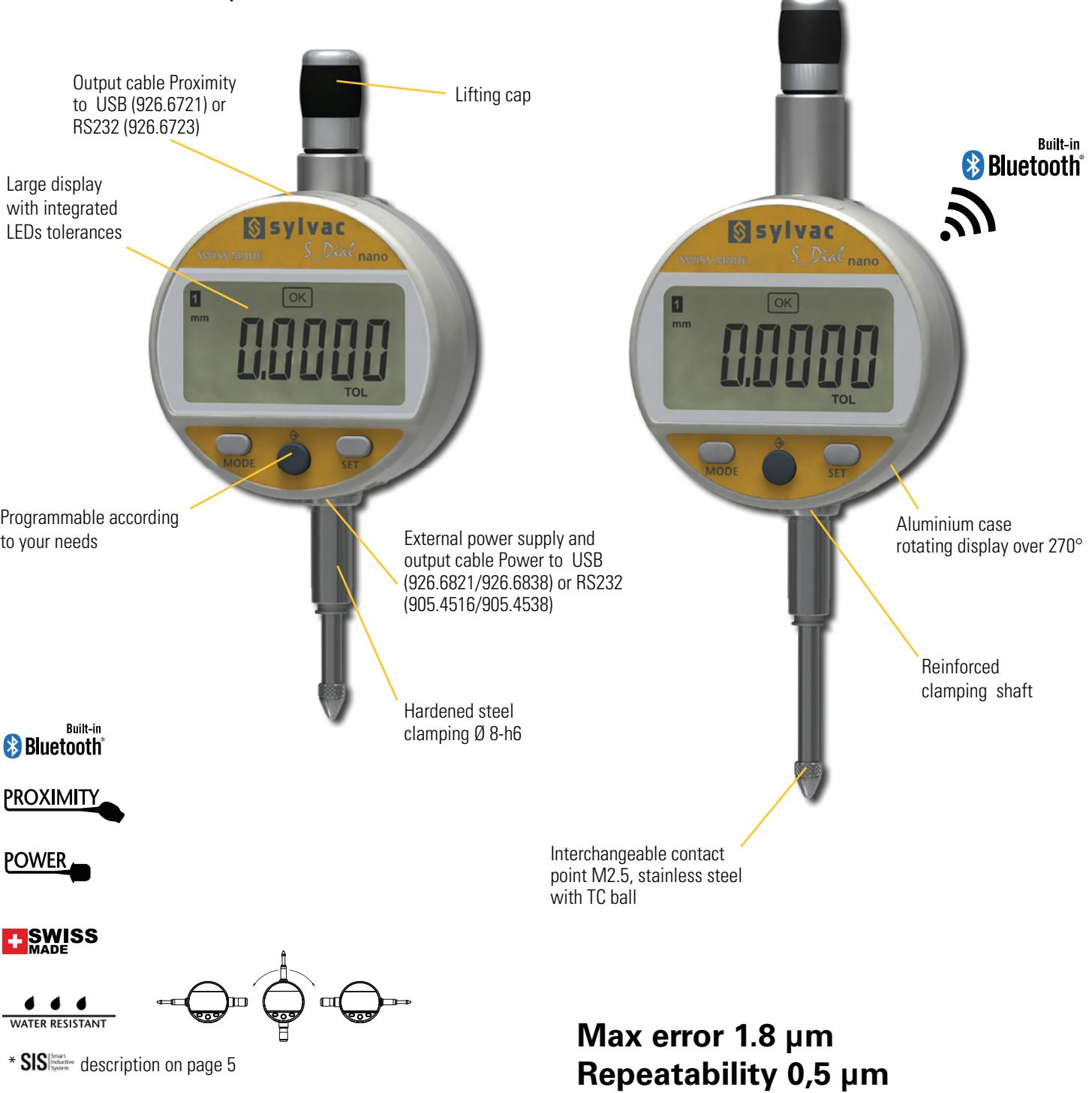
Digital indicators

DESCRIPTION

- B
- **0,1 µm resolution**
 - Robust construction
 - Water and coolant resistant
 - New technology with configurable menus
 - **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
 - Automatic wake-up and sleeping mode, **Absolute System S.I.S***
 - **Maximum error of 1.8 µm**

S_Dial WORK

NANO & NANO SMART

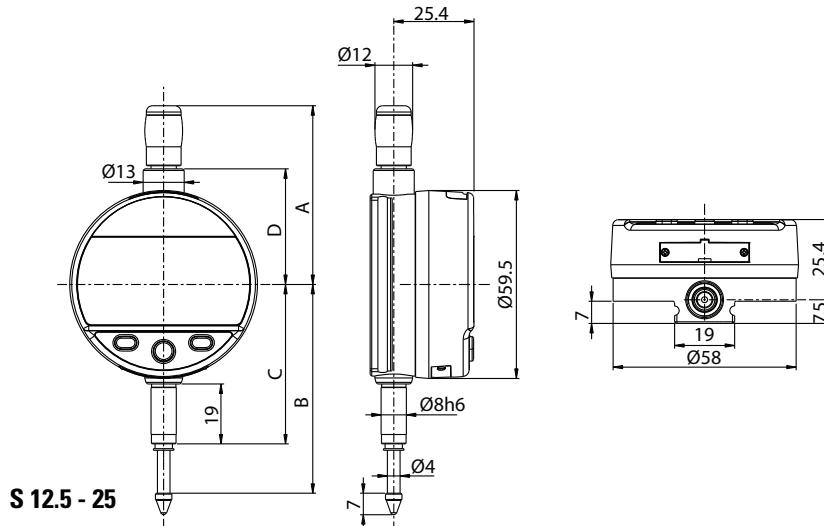


Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

NANO & NANO SMART



B

TECHNICAL SPECIFICATIONS

	805.5306	805.5506	805.6306	805.6506
Measuring range mm	12.5	25	12.5	25
Resolution mm	0.0001	0.0001	0.0001	0.0001
Max. Error fe μm	1.8	2.2	1.8	2.2
Repeatability μm			0.5	
IP rating			IP54	
A mm	56.7	69.4	56.7	69.4
B mm	66.1	78.5	66.1	78.5
C mm	50.5	50.5	50.5	50.5
D mm	36.6	49.4	36.6	49.4
Output data	USB / RS232		USB / RS232 / Bluetooth® wireless technology*	
Programmable by PC		●		
Standard functions (customized by PC)	mm/inch, ref I/II, preset (max 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock			

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

	S 12.5	S 25
Standard N	0.65 - 0.90	0.65 - 1.15
Low ²⁾ N	0.4 - 0.55	0.45 - 0.9
High ²⁾ N	1.0 - 1.6	0.9 - 1.8

Tolerance $\pm 20\%$, spindle in outgoing measurement position.
²⁾ on request

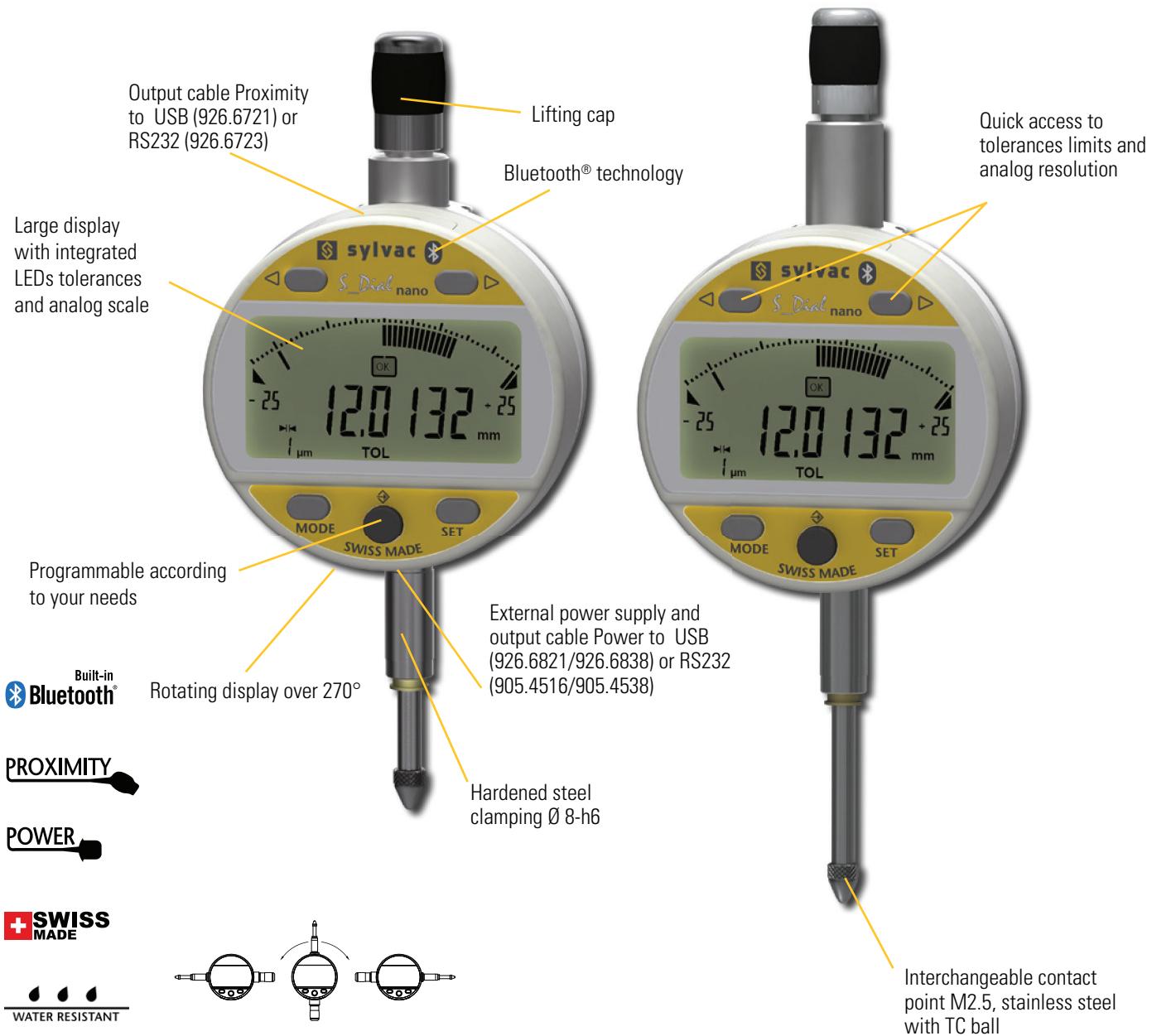
Digital indicators

DESCRIPTION

- **Integrated Bluetooth® Wireless technology**
- Adaptive analog display (up to 0.1 µm per segment)
- **0,1 µm resolution**
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 1.8 µm**

S_Dial WORK

ANALOG NANO SMART



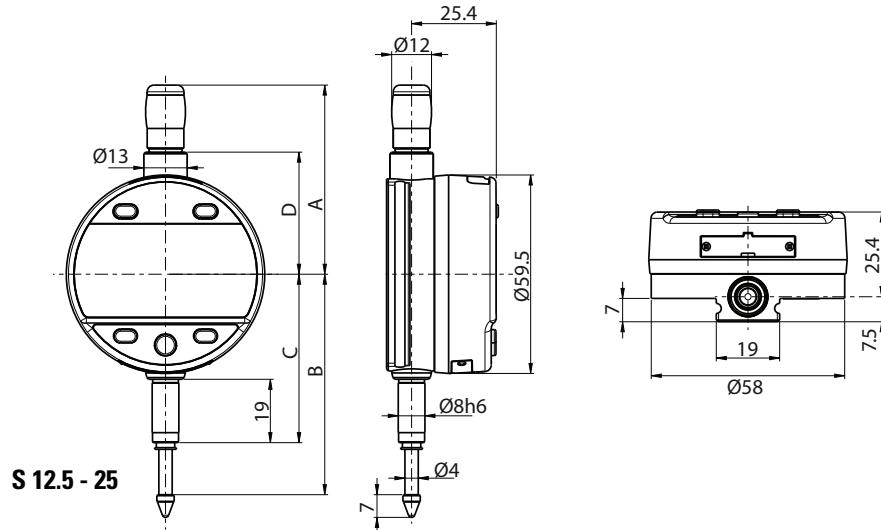
* SIS Smart Inductive System description on page 5

Digital indicators

DIMENSIONAL DRAWINGS

S_Dial WORK

ANALOG NANO SMART



B

TECHNICAL SPECIFICATIONS

		805.6307	805.6507
Measuring range	mm	12.5	25
Resolution	mm		0.0001
Max. Error fe	µm	1.8	2.2
Repeatability	µm		0.5
IP rating			IP54
A	mm	56.7	69.4
B	mm	66.1	78.5
C	mm	50.5	50.5
D	mm	36.6	49.4
Output data		USB / RS232 / Bluetooth® wireless technology*	
Programmable by PC			
Standard functions (customized by PC)		mm/inch, preset (max 99.9999 or 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock	

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

BASIC INSTRUMENT

MEASURING FORCE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

		S 12.5	S 25
Standard	N	0.65 - 0.90	0.65 - 1.15
Low ²⁾	N	0.4 - 0.55	0.45 - 0.9
High ²⁾	N	1.0 - 1.6	0.9 - 1.8

Tolerance ± 20%, spindle in outgoing measurement position.
²⁾ on request

Digital indicators

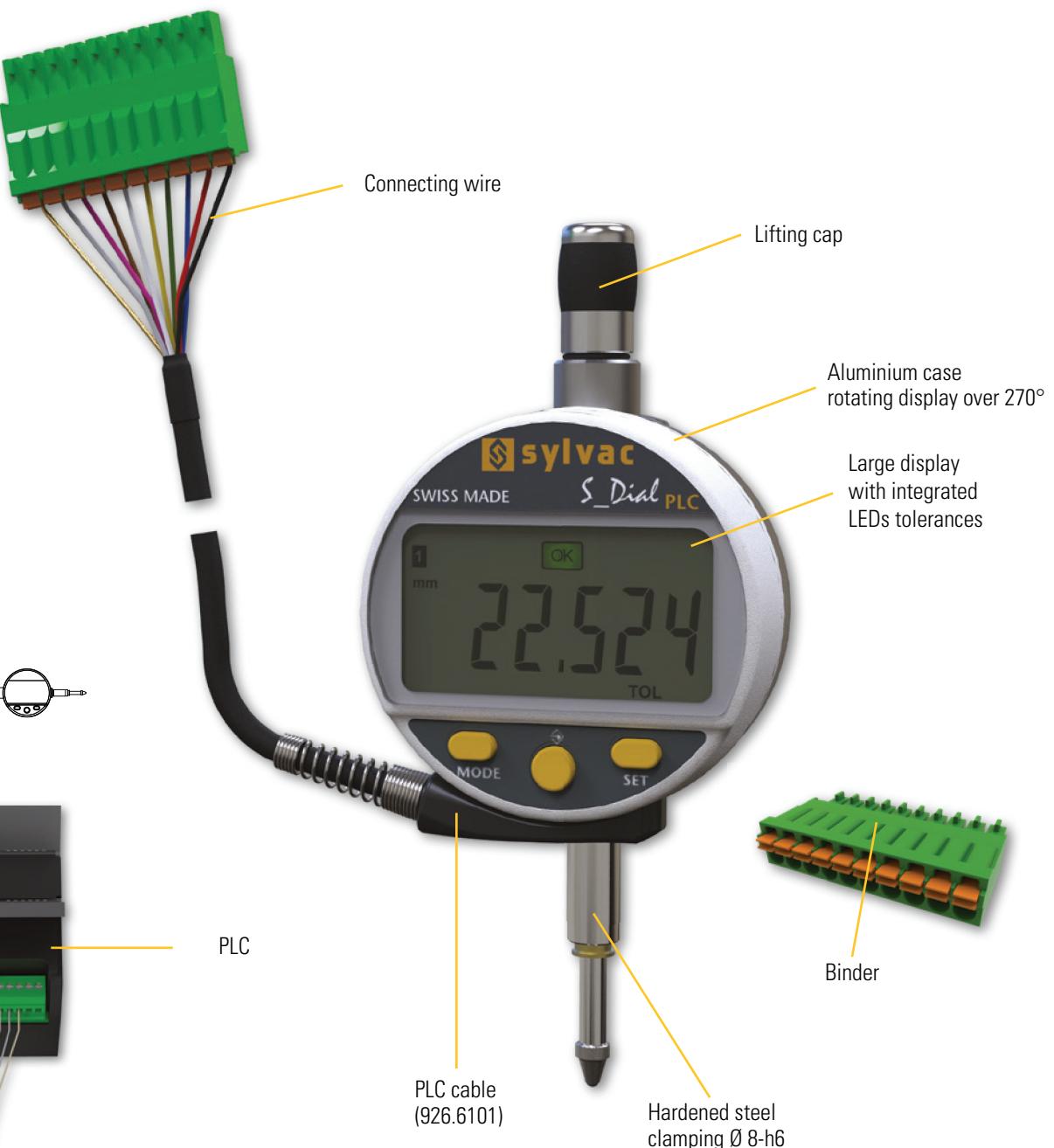
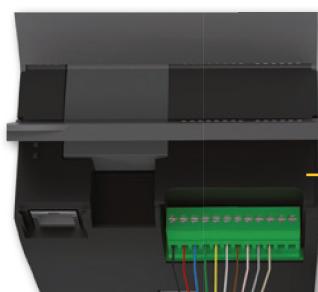
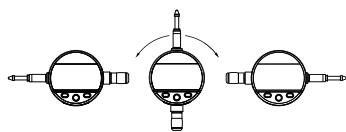
S_Dial WORK

DESCRIPTION

PLC

B

- Indicator with PLC connector
- Resolution up to 0.001mm
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, etc.)
- Maximum error up to 4 µm
- Compatible with the following protocols : MODBUS / ASCII / ORBIT

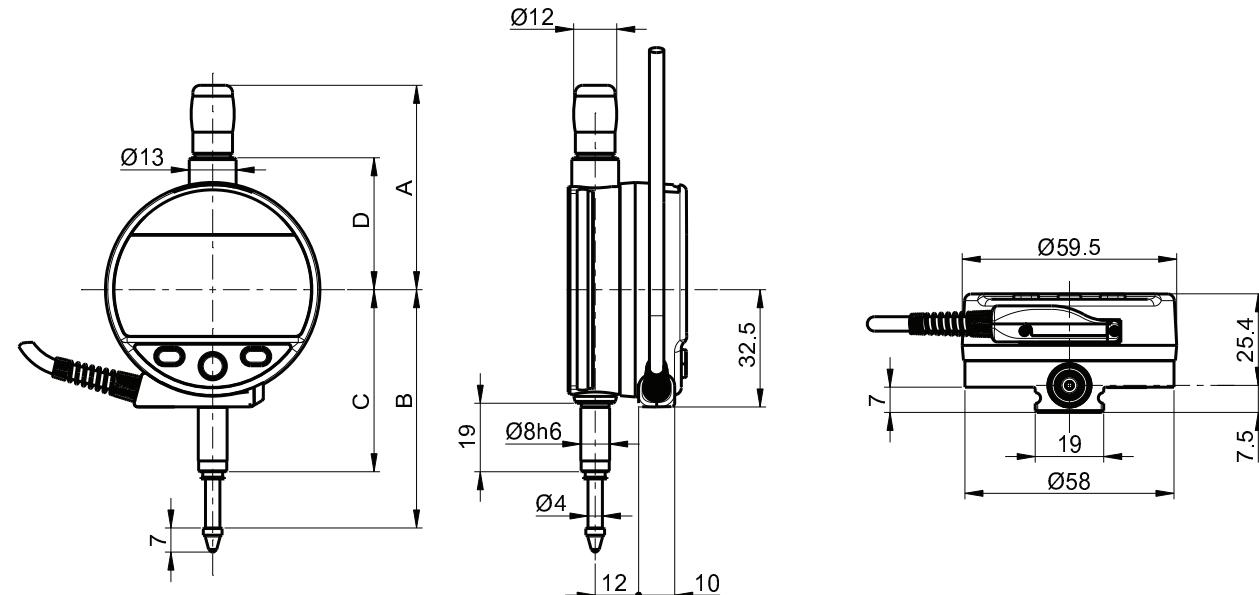


Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

PLC



B

TECHNICALS SPECIFICATIONS

		805.7301	805.7201	805.7501	805.7401
Measuring range	mm	12.5	12.5	25	25
A	mm		56.7		69.4
B	mm		66.1		78.5
C	mm		50.5		50.5
D	mm		36.6		49.4
Resolution	mm	0.001	0.01	0.001	0.01
Max. Error fe	µm	4	10	5	10
Repeatability	µm			2	
Output data		PLC cable / RS232 (Proximity) and RS485 (cable) compatible			
Data bus		RS485 compatible / Charge 1/256 (Protocole MODBUS, ASCII or ORBIT)			
Measuring force	N	0.65 - 0.9		0.65 - 1.15	
IP rating		IP67	IP54	IP67	IP54
Clamping		Ø8h6, interchangeable anvil probe M2.5			
Standard functions (customizable by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, tolerances, resolution, measuring direction, multiplier, keylock			

INSTRUMENT DE BASE

- Instrument according to technical specifications
- PLC cable + binder included

- Manual
- Calibration certificate

Digital indicators

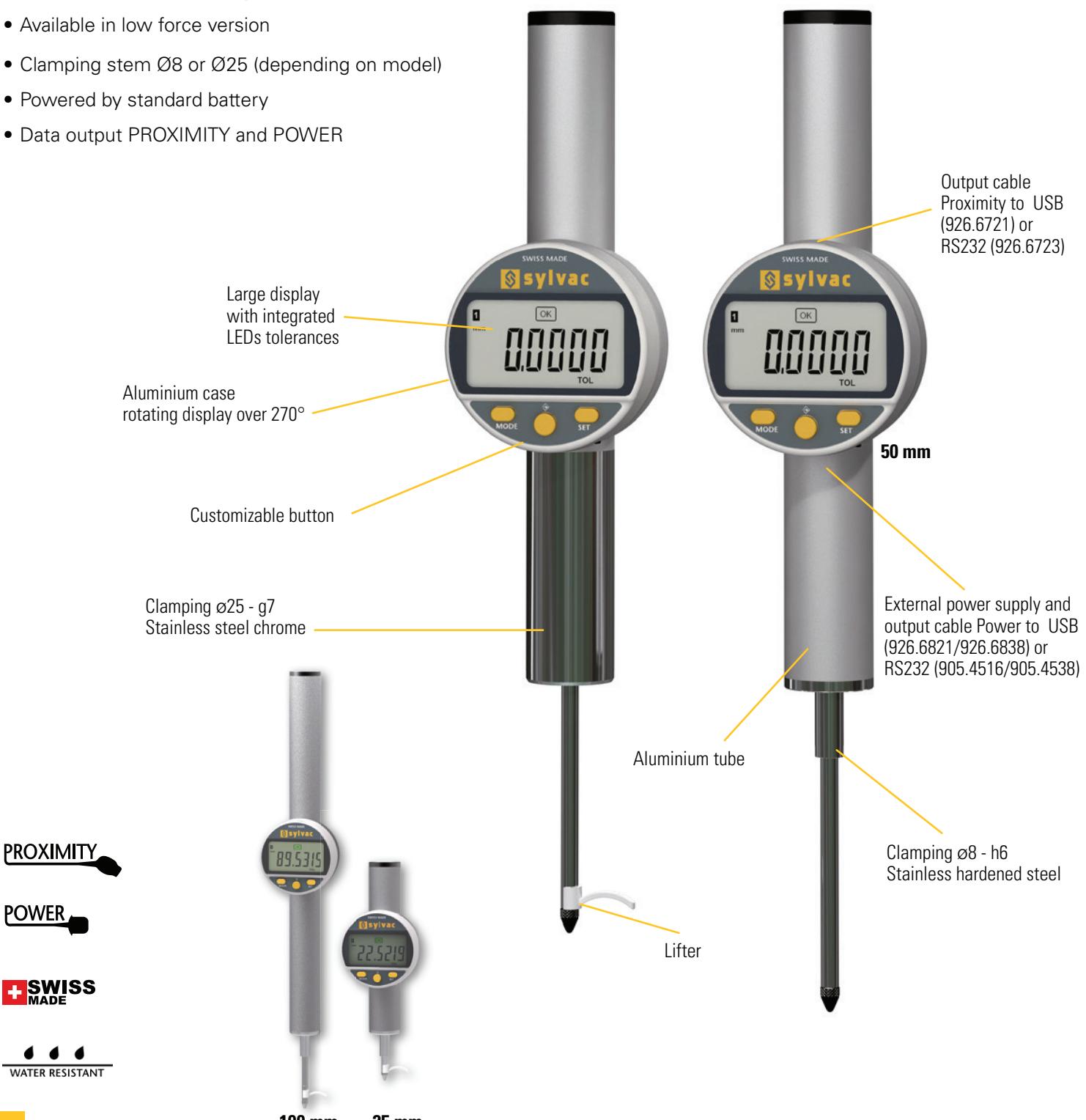
S_Dial PRO

DESCRIPTION

BASIC

B

- High accuracy indicators allowing to measure on long range without calibration
- Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc)
- Resolution 0.1 um
- **Max. admissible error 1.5 um/50mm**
- Corrected measuring system with reference on the scale
- Mixed ceramic/ball bearings
- Available in low force version
- Clamping stem Ø8 or Ø25 (depending on model)
- Powered by standard battery
- Data output PROXIMITY and POWER

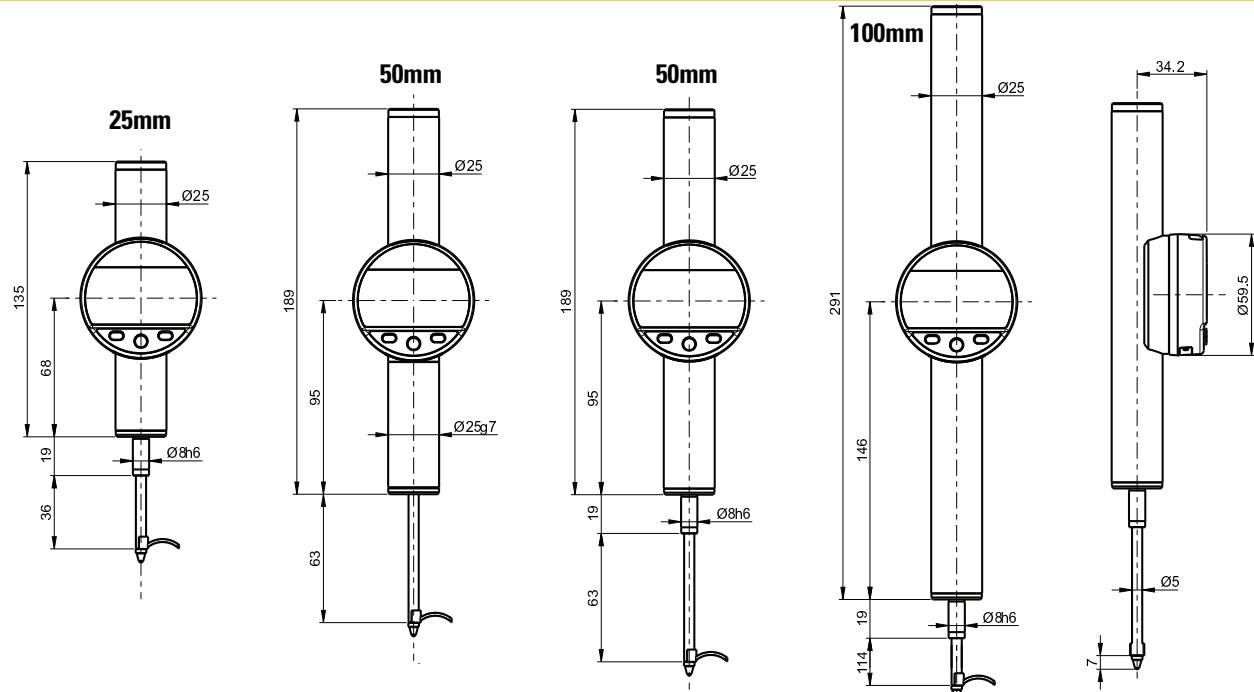


Digital indicators

S_Dial PRO

DIMENSIONAL DRAWINGS

BASIC



TECHNICALS SPECIFICATIONS

		805.8501	805.8502	805.8601	805.8701	805.8602	805.8702	805.8661
Measuring range	mm	25			50			100
Resolution	mm				0.0001			
Max. Error fe	µm	1.3			1.5			2.2
Repeatability	µm				0.2			
Output data				USB / RS232				
Programmable by PC				●				
Clamping			Ø8 h6			Ø25 g7		Ø8 h6
Spring		●	1)	●	1)	●	1)	●
Measuring force	N	0.75 - 1.00 ²⁾	0.30 ²⁾	0.85 - 1.2 ²⁾	0.40 ²⁾	0.85 - 1.2 ²⁾	0.40 ²⁾	0.90 - 1.30 ²⁾
IP rating					IP51			
Standard functions (customizable by PC)				mm/inch, ref I/II, preset (max 99.999) min/max/delta, tolerances, resolution, measuring direction, multiplier, automatic extinction/manual, keylock				

¹⁾ Model without spring : Constant measuring force, use only in a vertical position

²⁾ The values agree within ± 20% (vertical down, measuring rod outgoing)

INSTRUMENT DE BASE

- Instrument according to technical specifications
- Manual
- Lithium battery CR2032 included
- Calibration certificate
- Lifter included

Digital indicators

S_Dial

APPLICATIONS

B



Measurement of a span with S_Dial WORK equipped with measuring ball probe 905.2207



S_Dial WORK Analog measuring with bore gauge system



S_Dial WORK mounted on a Sylvac PS15 bench



S_Dial WORK Smart working in duplex mode and connected to D300S to measure concentricity, roundness, etc.



S_Dial WORK PLC connected to a PLC



S_Dial WORK Analog used on bore gauge system



Indicators with Bluetooth® Wireless technology on a 4 points jig



Indicators with Bluetooth® Wireless technology on an iPad through the Sylvac BT Smart App



S_Dial PRO on ceramic stand

Digital indicators

S_Dial

LIFTING DEVICES



Lower lifting lever, type 905.4214



Lifting device on S_Dial PRO Basic



Upper lifting device type 905.4215



Pneumatic lifting device type 905.2218



Vacuum lifting device type 905.2220



Lifting device with photo-cable type 905.2216



Lifting device type 905.2214



Lifting device on S_Dial WORK Smart



Upper lifting lever type, 905.2215

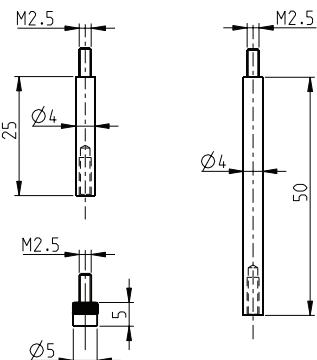
Digital indicators

S_Dial

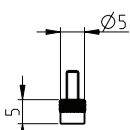
ACCESSORIES

B

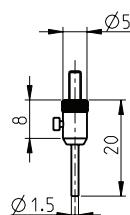
Contact points M2.5



905.2206



905.2201



905.2202



905.2203

S233

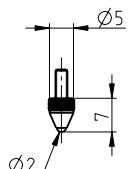
S234 (905.4321)

S234 (905.4322)

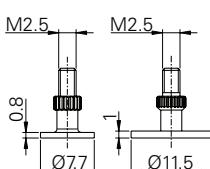
S_Dial WORK
12.5 - 25 mm

S_Dial WORK
50 - 150 mm

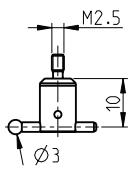
S_Dial PRO Basic



905.2204



905.2205



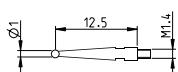
905.2207

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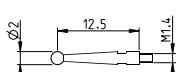
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905.2240

Short probe, TC ball

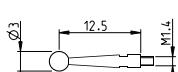
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905.2241

Short standard probe, TC ball

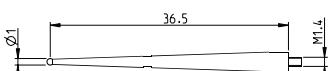
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905.2242

Short probe, TC ball

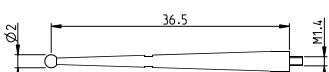
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905.2243

Long probe, TC ball

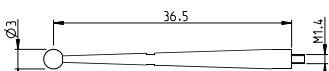
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905.2244

Long standard probe, TC ball

•



905.2245

Long probe, TC ball

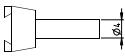
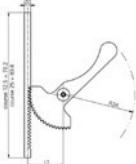
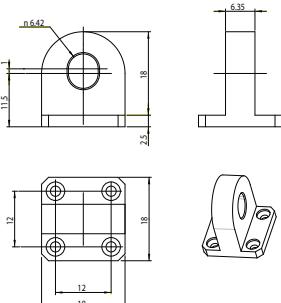
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Digital indicators

S_Dial

ACCESSORIES

B

			S233	S234	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm
	905.2246 Clamping stem		●	●		
	905.2247 Clamping stem		●	●		
	905.2248 Spanner for probe			●		
	805.0214 Lifting device, range 12.5mm				● ¹⁾	
	805.0215 Lifting device, range 25mm				● ¹⁾	
	805.0213 Lug back				● ¹⁾	● ¹⁾
	905.2231 Sleeve Ø8 --> 10mm with locking screw	●	●	●	●	●
	905.4212 Screwdriver for S233 & S234	●	●			

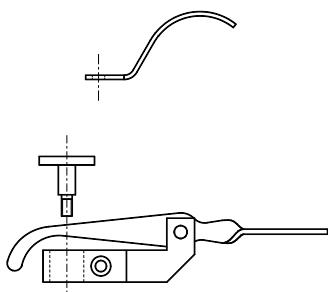
¹⁾ Except S_Dial WORK Basic

Digital indicators

S_Dial

ACCESSORIES

B



905.2214

Lifting device

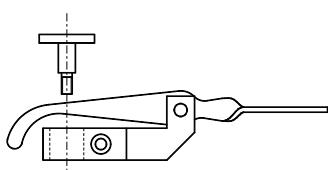
S233

S234

S_Dial WORK
12,5 - 25 mm

S_Dial WORK
50 - 150 mm

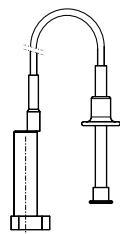
S_Dial PRO Basic



905.2215

Upper lifting device

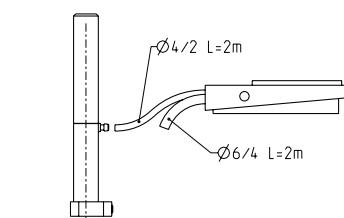
•



905.2216

Lifting device with photo-cable

•



905.2218

Pneumatic lifting device with foot pedal

•

905.2217

Lifter only for 905.2218

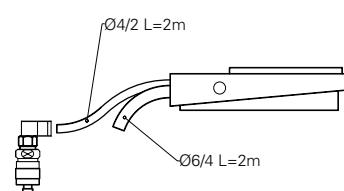
•

905.2219

Pneumatic foot pedal for 905.2218

•

•



905.2220

Vacuum lifting device with foot pedal

•

905.2227

Pressure controller

•

905.2228

Vacuum foot pedal for 905.2220

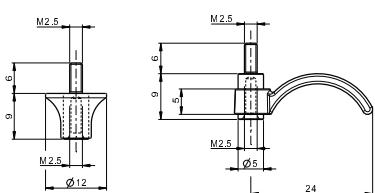
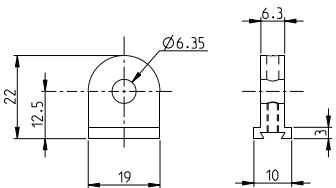
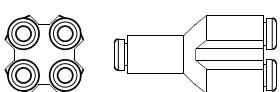
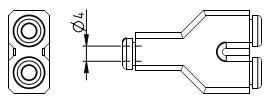
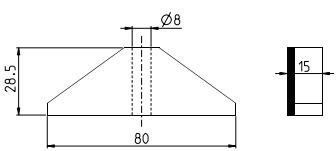
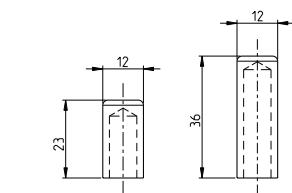
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Digital indicators

S_Dial

ACCESSORIES

B



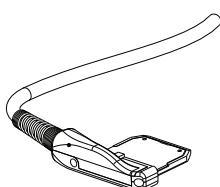
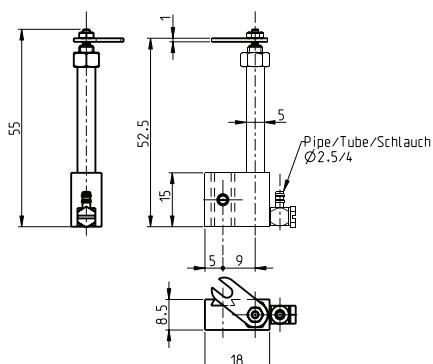
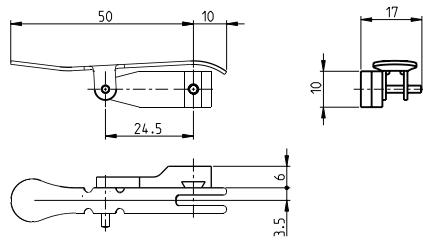
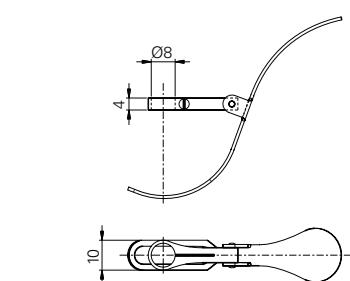
		S233	S234	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial PRO Basic
905.2221	Dust protection for indicator, range 12.5 mm			●		
905.2222	Dust protection for indicator, range 25 mm			●		
905.2223	Depth measuring base			●	●	
905.2261	Snap connector for pneumatic lifter x2	●		●	●	
905.2262	Snap connector for pneumatic lifter x4	●		●	●	
905.4211	Center lug back	●	●			
905.2224	Plastic lifting lever (bottom)	●		●	●	●
905.2225	Plastic lifting ring (bottom)	●		●	●	●

Digital indicators

S_Dial

ACCESSORIES

B



905.4214

Lower lifting device, range 12.5 mm

S233

S234

S_Dial WORK
12.5 - 25 mm
S_Dial WORK
50 - 150 mm
S_Dial WORK
PLC

905.4215

Upper lifting device for S (Standard)
execution, except vertical type

●

905.4217

Pneumatic lifting device for standard type

●

926.6101

Replacement cable for digital indicator PLC

●

¹⁾ used on range 20 mm max