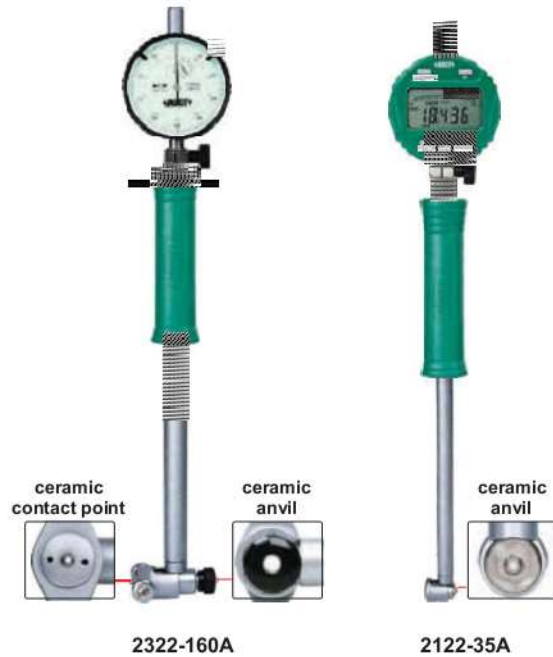
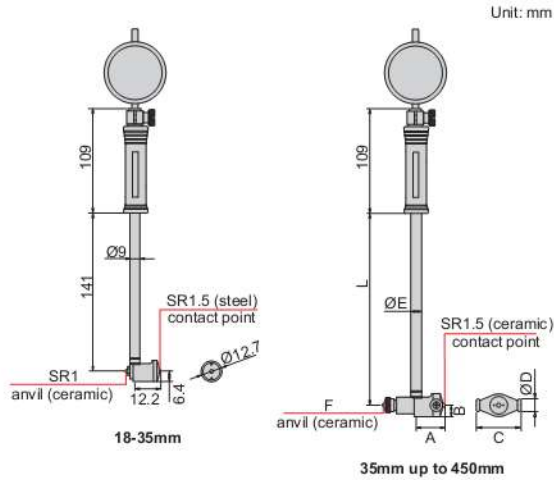


ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

DATA OUTPUT



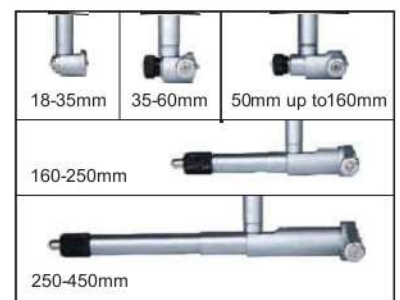
- Optional accessory: setting ring (code 6312), long handle (code 7351)

Range	A	B	C	ØD	ØE	F	L
35-60mm	22	9	27	13	12.8	SR2	141
50-100mm	26	9	35	13	12.8	SR2	141
50-160mm	26	9	35	13	12.8	SR2	141
100-160mm	26	9	35	13	12.8	SR2	141
160-250mm	56.5	13	74.5	15	12.8	SR2	241
250-450mm	86.5	15	101.5	15	14.5	SR2.5	241



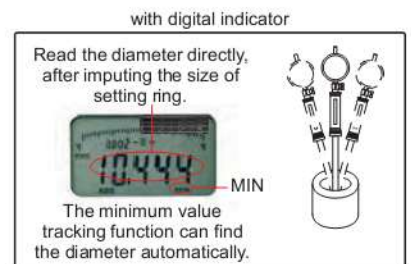
With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2322-35A	18-35mm	dial indicator, range 10mm, graduation 0.01mm (code 2308-10FA)	±0.015mm	0.003mm
2322-60A	35-60mm		±0.018mm	0.003mm
2322-100A	50-100mm		±0.018mm	0.003mm
2322-160A	50-160mm		±0.018mm	0.003mm
2322-161A	100-160mm		±0.018mm	0.003mm
2322-250A	160-250mm		±0.018mm	0.003mm
2322-450A	250-450mm		±0.018mm	0.003mm



With digital indicator

Code	Range	Indicator	Accuracy	Repeatability
2122-35A	18-35mm	digital indicator, range 12.7mm/0.5", resolution 0.002mm/0.0001" (code 2108-10F)	±0.015mm	0.003mm
2122-60A	35-60mm		±0.018mm	0.003mm
2122-100A	50-100mm		±0.018mm	0.003mm
2122-160A	50-160mm		±0.018mm	0.003mm
2122-161A	100-160mm		±0.018mm	0.003mm
2122-250A	160-250mm		±0.018mm	0.003mm
2122-450A	250-450mm		±0.018mm	0.003mm




BORE GAGES FOR SMALL HOLES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS


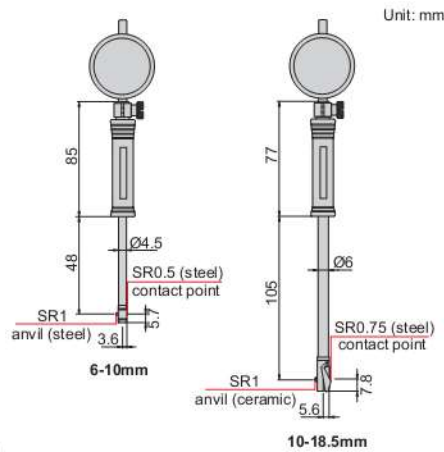
with digital indicator

Read the diameter directly, after inputting the size of setting ring.



MIN

The minimum value tracking function can find the diameter automatically.

Optional accessory: setting ring (code 6312)

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2852-10	6-10mm	dial indicator, range 3mm, graduation 0.01mm (code 2311-3F)	$\pm 0.012\text{mm}$	0.003mm
2852-18	10-18.5mm		$\pm 0.012\text{mm}$	0.003mm

With digital indicator

Code	Range	Indicator	Accuracy	Repeatability
2152-10	6-10mm	digital indicator, range 12.7mm/0.5", resolution 0.002mm/0.0001" (code 2108-10F)	$\pm 0.012\text{mm}$	0.003mm
2152-18	10-18.5mm		$\pm 0.012\text{mm}$	0.003mm




BORE GAGES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS


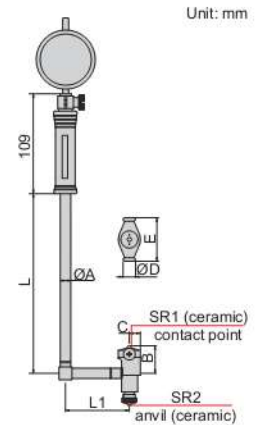
with digital indicator

Read the diameter directly, after inputting the size of setting ring.



MIN

The minimum value tracking function can find the diameter automatically.

Optional accessory: setting ring (code 6312), long handle (code 7351)

With dial indicator

Code	Range	Indicator	Accuracy	Repeatability
2827-60A	35-60mm	dial indicator	$\pm 0.018\text{mm}$	0.003mm
2827-160A	50-160mm	code 2308-10FA, range 10mm, graduation 0.01mm	$\pm 0.018\text{mm}$	0.003mm
2827-250A	160-250mm		$\pm 0.018\text{mm}$	0.003mm
2827-450A	250-450mm		$\pm 0.018\text{mm}$	0.003mm

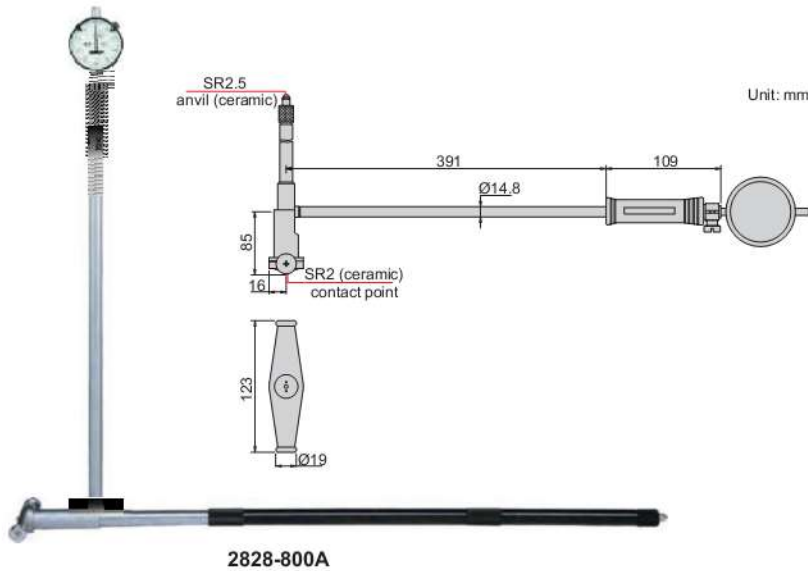
With digital indicator

Code	Range	Indicator	Accuracy	Repeatability
2127-60	35-60mm	digital indicator	$\pm 0.018\text{mm}$	0.003mm
2127-160	50-160mm	code 2108-10F, range 10mm, graduation 0.01mm	$\pm 0.018\text{mm}$	0.003mm
2127-250	160-250mm		$\pm 0.018\text{mm}$	0.003mm
2127-450	250-450mm		$\pm 0.018\text{mm}$	0.003mm

Range	$\varnothing A$	B	C	$\varnothing D$	E	L	L1	(mm)
35-60mm	12.8	22	9	13	27	141	75	
50-160mm	12.8	28.5	9.2	13	35	141	76.2	
160-250mm	14.5	62.0	12.7	15	74.5	391	100	
250-450mm	14.5	91.5	15.0	15	101.5	391	100	

BORE GAGES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS



Code	Range	Indicator	Accuracy	Repeatability
2828-800A	400-800mm	dial indicator code 2308-10FA, range 10mm, graduation 0.01mm	±0.025mm	0.003mm
2128-800A	400-800mm	digital indicator code 2108-10F, range 12.7mm/0.5", graduation 0.002mm/0.0001"	±0.025mm	0.003mm

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

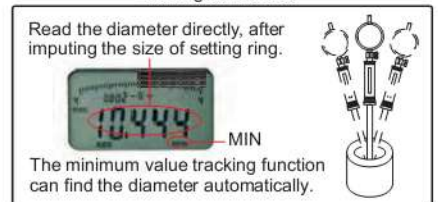
packaging (code 2824-S3)



BORE GAGE SETS



with digital indicator



- Optional accessory: setting ring (code 6312), long handle (code 7351)

With dial indicator

Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2824-S160	35-160mm	dial indicator, code 2308-10FA, range 10mm, graduation 0.01mm	① 35-50mm (dial indicator and handle are optional) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2824-S3	18-160mm	dial indicator, code 2308-10FA, range 10mm, graduation 0.01mm	① 18-35mm ② 35-60mm (dial indicator is optional) ③ 50-160mm (dial indicator is optional)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm

With digital indicator

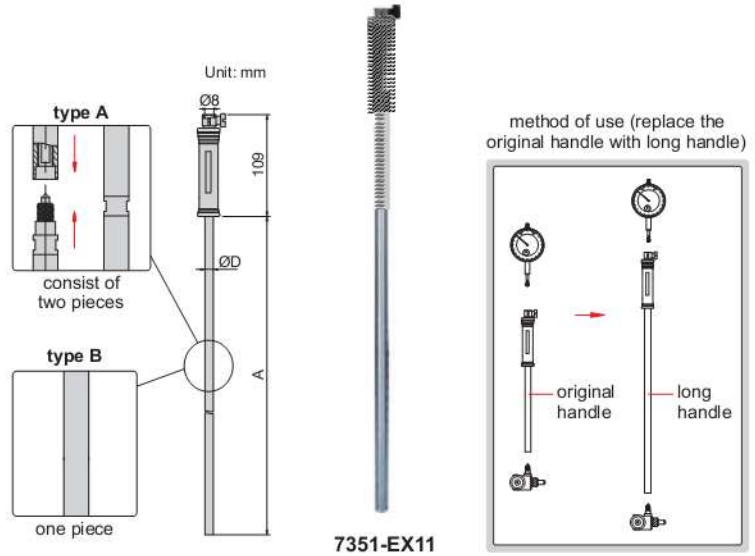
Code	Range	Indicator	Bore gages included	Accuracy	Repeatability
2854-T160	35-160mm	digital indicator, code 2108-10F range 12.7mm/0.5", resolution 0.002mm/0.0001"	① 35-50mm (digital indicator and handle are not included) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm
2854-T3	18-160mm	digital indicator, code 2108-10F range 12.7mm/0.5", resolution 0.002mm/0.0001"	① 18-35mm ② 35-60mm (digital indicator is optional) ③ 50-160mm (digital indicator is optional)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm

LONG HANDLES

- To assist deep-hole measurement
- Can be used for bore gages 2122, 2127, 2322, 2724, 2824 and 2827

6

(mm)				
Code	Applicable bore gages	A	ØD	Type
7351-EX11	35-60mm, 50-100mm,	475	13	B
7351-EX12		980	13	
7351-EX13	50-160mm, 100-160mm	1480	14.5	A
7351-EX14		1980	14.5	
7351-EX21	160-250mm, 250-450mm	480	14.5	B
7351-EX22		980	14.5	
7351-EX23		1480	14.5	A
7351-EX24	1980	14.5		



ANVILS FOR BORE GAGES

- For bore gages 2852, 2152, 2322, 2122, 2127, 2724, 2824 and 2827



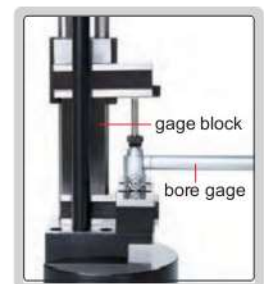
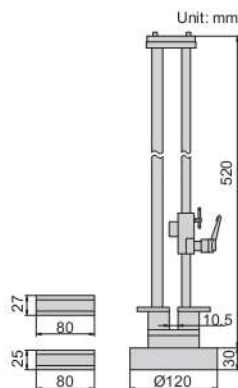
Code	Applicable bore gages	Material of measuring face	Quantity per set	Measuring range of anvil (mm)
7350-10	6-10mm	steel	9 pcs	6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10
7350-18	10-18.5mm	ceramic	9 pcs	10, 11, 12, 13, 14, 15, 16, 17, 18
7350-35	18-35mm	ceramic	9 pcs	18, 20, 22, 24, 26, 28, 30, 32, 34
7350-60	35-60mm	ceramic	6 pcs	35, 40, 45, 50, 55, 60
7350-100	50-100mm	ceramic	11 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100
7350-160	50-160mm	ceramic	12 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-161	100-160mm	ceramic	12 pcs	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
7350-250	160-250mm	ceramic	5 pcs	160, 170, 180, 190, 200
7350-450	250-450mm	ceramic	5 pcs	250, 260, 270, 280, 290

BORE GAGE SETTER

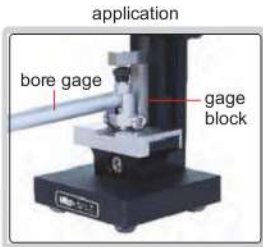


- Used together with gage blocks to set bore gages

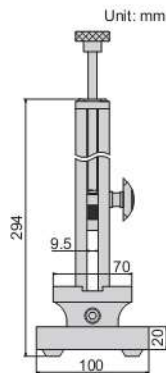
Code	Setting range
2395-400	18-400mm



BORE GAGE SETTERS



- Vertical and horizontal use
- To be used with gage blocks



7353-160

horizontal use



gage blocks for 7353-160



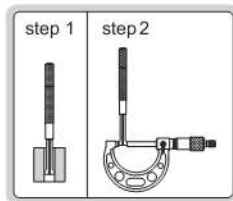
Gage block set for 7353-160

Blocks per set	Size (mm)	Step (mm)	Quantity	Remark
33	1.005		1 pc	grade 2 (ISO3650)
	1.01-1.09	0.01	9 pcs	
	1.1-1.9	0.1	9 pcs	
	1-9	1	9 pcs	
	10-30	10	3 pcs	
	50		1 pc	
	100		1 pc	

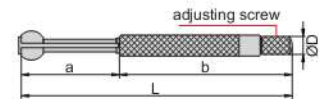
Code	Range	Repeatability	Remark
7353-160	0-160mm	1.2µm	with gage block set
7353-160W	0-160mm	1.2µm	without gage block set

SMALL HOLE GAGE SET

- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish



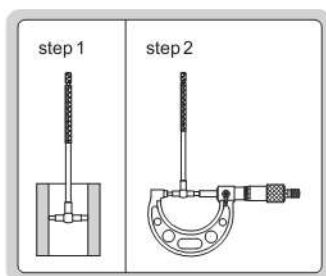
4208-1



Range	L	a	b	ØD
3-5mm	76	24	52	5
5-7.5mm	79	27	52	5
7.5-10mm	88	30	58	6
10-13mm	91	34	58	6

Code	Total range	Gages included
4208-1	3-13mm	3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm

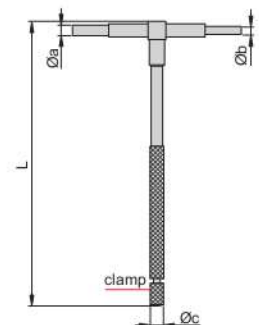
TELESCOPING GAGE SET



- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish



4206-1



Range	L	Øa	Øb	Øc
8-12.7mm	115	3.9	2.9	6.2
12.7-19mm	115	5.3	3.8	6.2
19-32mm	115	5.3	3.8	6.2
32-54mm	137	7.6	6.1	7.2
54-90mm	137	7.6	6.1	7.2
90-150mm	137	7.6	6.1	7.2

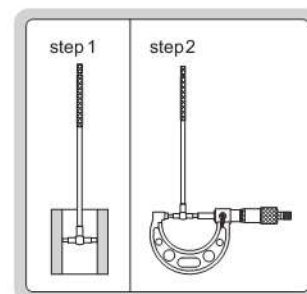
Code	Total range	Gages included
4206-1	8-150mm	8-12.7mm, 12.7-19mm, 19-32mm, 32-54mm, 54-90mm, 90-150mm

LONG HANDLE TELESCOPING GAGES

- For quick measurement of inside diameter of deep holes and width of slots
- Satin chrome finish

6

Code	Range	L	Øa	Øb	Øc
4209-1	8-12.7mm	300	3.9	2.9	6.2
4209-2	12.7-19mm	300	5.3	3.8	6.2
4209-3	19-32mm	300	5.3	3.8	6.2
4209-4	32-54mm	300	7.6	6.1	7.2
4209-5	54-90mm	300	7.6	6.1	7.2
4209-6	90-150mm	300	7.6	6.1	7.2



LARGE DIAMETER GAGE CODE ISQ-RA600

INSIZE PLUS
MADE IN ITALY

DATA
OUTPUT



software CD
(included)



display of angle

- To measure large external or internal diameters
- Automatic judgment and display external or internal diameter
- Backlight LCD display, can rotate 180 ° for easy reading
- Memory of 12 readings and average calculation
- With minimum and maximum measurement mode
- Angle can be displayed



external diameter measurement



internal diameter measurement

SPECIFICATION

Range	external	Ø500~6000mm/19.69~236.22"
	internal	Ø1100~6000mm/43.31~236.22"
Resolution	0.01mm/0.001"	
Accuracy	±(0.01+D²/30)mm (D is the diameter to be measured, in meter)	
Power supply	rechargeable battery (for 8 hours working)	
Weight	3.8kg	

STANDARD DELIVERY

Main unit	1 pc
AC/DC adapter	1 pc
USB cable and software	1 pc

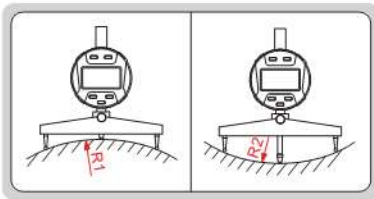
Accuracy sample by diameters

Diameter	Accuracy
500mm	±0.018mm
1000mm	±0.043mm
1500mm	±0.085mm
2000mm	±0.143mm
2500mm	±0.218mm
3000mm	±0.310mm
4000mm	±0.543mm
5000mm	±0.843mm
6000mm	±1.210mm



software (included),
data output, save and print

DIGITAL RADIUS GAGE



2183

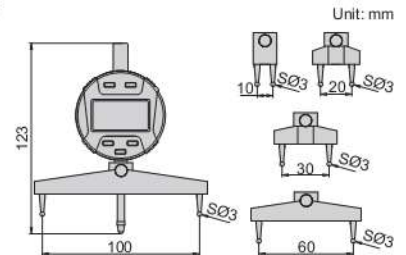


ATTENTION: NO DATA OUTPUT

- Resolution: 0.005mm/0.0002"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Display can be rotated by 320°
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032, automatic power off

Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2183	5-910mm/0.2-35.83"	7-910mm/0.3-35.83"	±0.01R *

* R is the radius to be measured. For example, radius is 100mm, the accuracy is ±0.01x100=±1mm



6

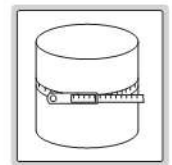
7

CIRCUMFERENCE TAPES

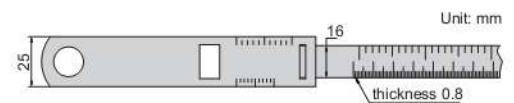
- Graduation: 0.1mm
- Measure diameter and circumference of pipes, trees, tires, etc.
- Laser engraved scale
- Made of stainless steel



7114-950



Code	Circumference range	Diameter range	Accuracy	
			Circumference	Diameter
7114-950	150-950mm	Ø50-300mm	±3mm	±1mm
7114-2200	940-2200mm	Ø300-700mm	±3mm	±1mm
7114-3460	2190-3460mm	Ø700-1100mm	±3mm	±1mm



ATTENTION: RECHARGEABLE BATTERY, FOR 24 HOURS CONTINUOUS WORKING

LINEAR BALL BEARINGS FOR TEN MILLION TIMES USE

DATA OUTPUT

ABSOLUTE ENCODER, THE ORIGINAL DATA REMAINS AFTER POWER OFF

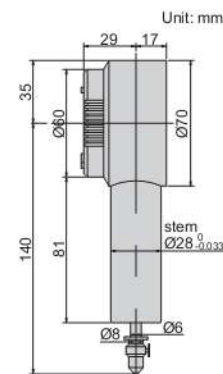
Ø28MM STEM SUITABLE FOR REINFORCED CLAMPING

HIGH PRECISION DIGITAL INDICATORS

- Linear ball bearings for ten million times use
- Ø28mm stem suitable for reinforced clamping
- Absolutely encoder, the original data remains after power off
- Adjustable resolution: 0.0002mm/0.00001", 0.001mm/0.00001", 0.01mm/0.0001"
- The display flips over when the spindle faces up
- Reading in digital and analog
- Data output
- Button function: data output, tolerance, data preset, data hold, direction change, max./min./TIR, power off time, on/off, mm/inch, analog pointer graduation adjustment, adjust resolution
- Power: rechargeable battery, for 24 hours continuous working
- Ruby probe
- Optional accessory: data output cable, code 7302-SPC11, for 2140-6 wireless receiver, code 2134-R1 (keyboard format), code 2134-R2 (serial port format), for 2140-6WL



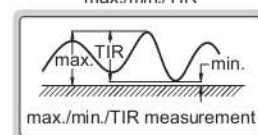
2140-6



warning when over tolerance



max./min./TIR



analog pointer



Code	Range	Accuracy	Hysteresis	Remark	Wireless
2140-6	0-6mm/0-0.24"	1.6µm	0.8µm	flat back	no
2140-6WL	0-6mm/0-0.24"	1.6µm	0.8µm	flat back	built-in wireless