

COMPACT SENSOR SERIES



Details 16



















The accuracy of measurement is greatly affected by the environment. The specifications and height accuracy of the Base Master are applied at 20° C $\pm 0.5^{\circ}$ C temperature and $55\% \pm 5\%$ humidity.

If precision measuring is required in conditions other than stated above, please compensate the height by comparing with a gauge block.

COMPACT SENSOR

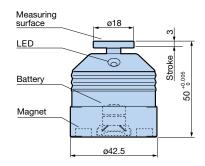
BASE MASTER

- Electronic detection of cutting edge position.
- Repeatability $\pm 1\mu$ m (2 σ).











For use with conductive cutting tools, workpieces, and machine tools



Notifies via LED

Height accuracy	50 ^{+0.005} mm
Repeatability	±1μm (2σ)
Min. tool diameter	ø1mm
Measuring pressure	3N
Stroke	3mm
Touch signal	LED illuminates (red)
Battery	SR44 x 2
Battery life	10 continuous hours
Weight	0.23kg

* Type without magnets is also available. If required, add /N at the end of the model number when ordering. (Example: BM-50/N)

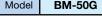
BASE MASTER GOLD

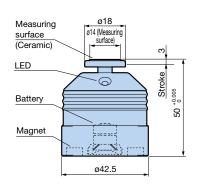
• Internal contact method compatible with various tools and workpieces.

Easily visible

machines









For all cutting tools, workpieces and machine tools



Notifies via LED

Height accuracy	50 ^{+0.005} mm
Repeatability	±1μm (2σ)
Min. tool diameter	ø1mm
Measuring pressure	2N
Stroke	3mm
Touch signal	LED illuminates (red)
Battery	SR44 x 2
Battery life	10 continuous hours
Weight	0.24kg

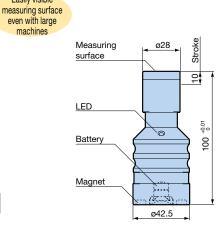
* Type without magnets is also available. If required, add /N at the end of the model number when ordering. (Example: BM-50G/N)



Model

BM-100G

Cutting edge detection position of 100mm from machining object top surface.





For all cutting tools, workpieces and machine tools



Height accuracy	100 ^{+0.01} mm
Repeatability	±1 μm (2 σ)
Min. tool diameter	ø1mm
Measuring pressure	2N
Stroke	10mm
Touch signal	LED illuminates (red)
Battery	SR44 x 2
Battery life	10 continuous hours
Weight	0.36kg

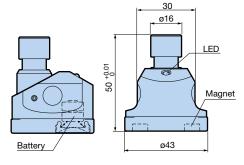
* Type without magnets is also available. If required, add /N at the end of the model number when ordering. (Example: BM-100G/N)

COMPACT SENSOR

BASE MASTER RED

- Independent body and measurement part.
- DLC coated Sensor Plate.
 Safe stroke amount of 5mm.







For all cutting tools, workpieces and machine tools



Notifies via LED

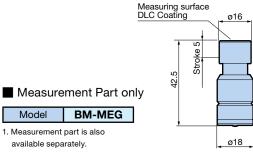
Height accuracy	50+0.01 mm
Repeatability	±1 μm (2 σ)
Min. tool diameter	ø1mm
Measuring pressure	2N
Stroke	5mm
Touch signal	LED illuminates (red)
Battery	SR44 x 2
Battery life	10 continuous hours
Weight	0.2kg

■ Body Set





included.



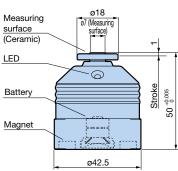
BASE MASTER MICRO

- Cutting edge position detection of ø0.05mm tool.
- Low-contact pressure cushion mechanism realizes measurement of ultra-small tools.











For all cutting tools, workpieces and machine tools



Notifies via LED

Height accuracy	30 ₀ IIIII
Repeatability	±1 μm (2 σ)
Min. tool diameter	ø0.05mm
Measuring pressure	0.3N
Stroke	1mm
Touch signal	LED illuminates (green)
Battery	SR44 x 2
Battery life	10 continuous hours
Weight	0.24kg

※ Type without magnets is also available. If required, add /N at the end of the model number when ordering. (Example: BM-50M/N)



For all cutting tools, workpieces

and machine tools

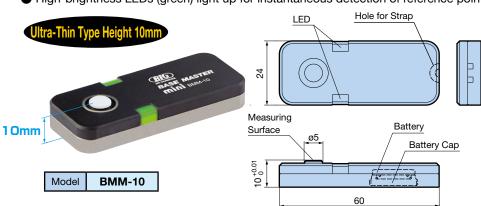
Standard accessory

COMPACT SENSOR



[BMM-10]

- 10mm reference height tool offset sensor.
- Ultra-compact design to prevent tool interference.
- High-brightness LEDs (green) light up for instantaneous detection of reference points.



Height accuracy	10 ^{+0.01} mm
Repeatability	±1 μm(2 σ)
Min. tool diameter	ø0.1mm
Measuring pressure	1N
Stroke	1mm
Touch signal	LED illuminates (green)
Battery	CR1620×1
Battery life	10 continuous hours
Weight	0.04kg

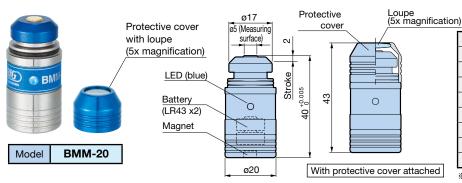
Exclusive strap×1P

Notifies

via LED

[BMM-20]

World's smallest tool offset sensor with a diameter of ø20.



Height accuracy	40 ^{+0.005} mm
Repeatability	±1 μm (2 σ)
Min. tool diameter	ø0.1mm
Measuring pressure	1.8N
Stroke	2mm
Touch signal	LED illuminates (blue)
Battery	LR43 x 2
Battery life	40 continuous hours
Weight	55g

*An exclusive wrench for battery cap is included.

Notifies

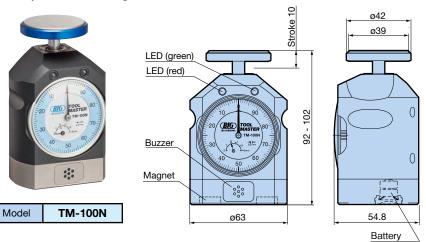
via LED

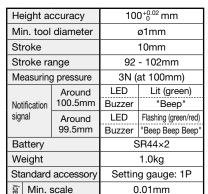
For all cutting tools, workpieces

and machine tools



- Notifies the height with LED and buzzer (new function)
- Large stroke that prevents collision: 10mm
- Reference can be checked with a setting gauge (100mm)
- Can also measure non-conductive workpieces and tools
- Firmly fixed with a magnet.





 Dial gauge accuracy conforms to JIS B7503:1997. *Type without magnets is also available.

Indicator error

Repeatability

Return error

If required, add /N at the end of the model number when ordering. (Example: TM-100N/N)



±15µm

5µm

5µm

Notifies

via buzzer

