

Environment-Resistant &
Tool-Setting
Precision Contact Sensor
MT-S Series



MT-SD008*
Rod type

MT-SHT008*
Ceramic flat-head type

MT-ST010*
Ceramic flat-head type



Ask SENPUM

+86-755-83330055

Fast Delivery Standard Models



Most products are in stock. Upon receiving your order, we will arrange prompt shipment to minimize your downtime-related costs and losses.



WeChat



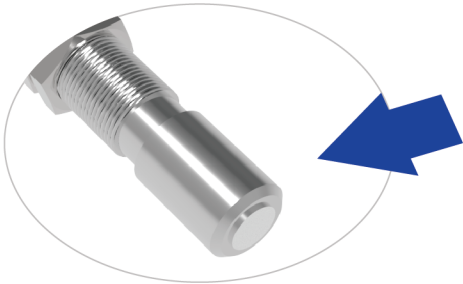
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LINE

Excellent abrasion resistance

The head of MT-SHT008/010 is made of ceramic with excellent abrasion resistance and can detect ultra-hard flat surfaces.



Excellent environmental resistance

Suitable for use in water and cutting fluid environments, it can also be used in dusty conditions without issues, ensuring precise tool setting even inside machine tools with no difficulty.

Protection class
IP67

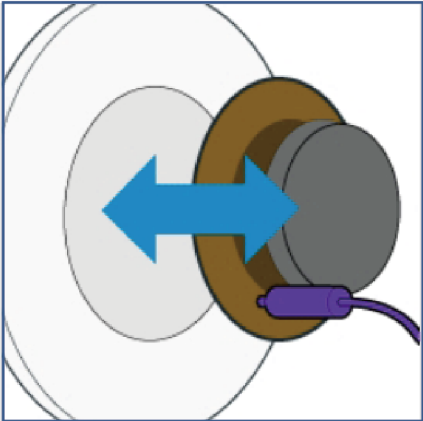
Ultra-high repeatability

±0.001 mm ultra-high repeatability, precise positioning.

Repeatability
±0.001 mm

Precise positioning, more extensive applications

Detecting the working condition of brake pads.



More Features

- Maximum stroke 3 mm.
- Operates reliably even in heavy dust conditions.
- M8/M10 two kinds of universal thread, easy installation.
- Precise tool setting in machine tool environments, effortlessly.

Product List

Type	Appearance	Stroke	Position repeatability (mm)	Operating force (N)	Mounting dimensions (mm)	Model
Environment-resistant, tool setting	Highly environment-resistant Rod type		±0.001 mm	0.6 N	M8 X 30	MT-SD008*
	Ceramic flat-head type				M8 X 23.5	MT-SHT008*
	Ceramic flat-head type Dust-cover style			1.5 N	M10 X 17.5	MT-ST010*

Special Specification Notes

- ① MT-SD008* Suitable for waterproof and cutting fluid-resistant environments
- ② MT-SHT008/MT-ST010* Features a ceramic contact surface at the head
- ③ MT-ST010* Equipped with a sealing rubber at the head to prevent dust ingress into the sensor

Specifications

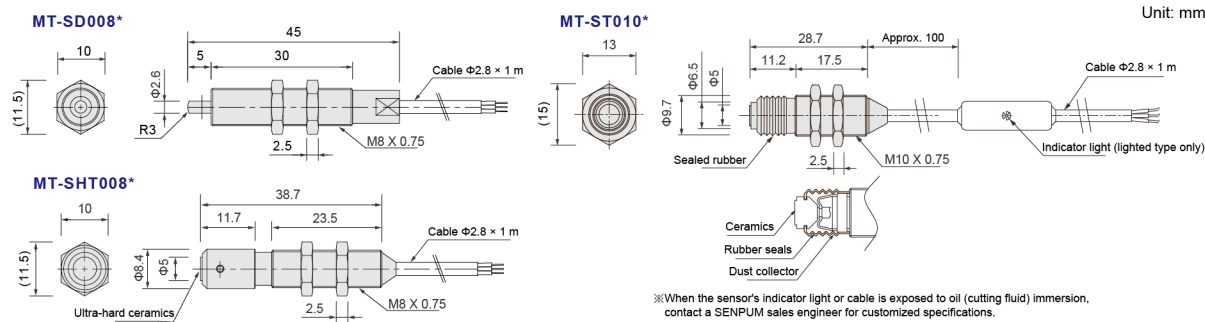
Type	Rod type		Ceramic flat-head type	
	M8 threaded type		M8 threaded type	M10 threaded type
Model	NO (OFF-ON)	With indicator	MT-SD008L	MT-SHT008L
	NC (ON-OFF)	With indicator	MT-SD008LC	MT-SHT008LC
Number of output signals			1-channel output	
Stroke			3 mm	
Position repeatability			±0.001 mm	
Operating force	0.6 N		1.5 N	
Trigger position			0.2 to 0.5 mm	
Indicator position			Approx. 200 mm from the main unit (only available with indicator type)	
Material			Housing/Nut/Shaft: SUS303	
Mounting torque	5 N		12 N	
Protection class			IP67 equivalent	
Weight			Approx. 100 g	

Note:
 1. Please don't give more than 30 N force to the contact part to avoid sensor damage.
 2. Please don't bend the connection between the sensor and the wire with force to avoid sensor damage.

Basic Specifications

Power voltage	5 to 24 VDC
Control output	NPN;Without indicator:15 mA max;With indicator:12 mA max
Current consumption	Without indicator:15 mA max;With indicator:12 mA max
Hysteresis	0.1 mm or less
Operating frequency	60 times/min
Withstanding voltage	AC 1000 V 1 minute
Insulation resistance	DC 250 V, 20 MΩ or more
Ambient temperature	-20 to +85 °C (no freezing)
Relative humidity	25 to 95% RH (no condensation)
Cable length	1 m

Dimensions



I/O Circuit Diagrams

MT-SD008L / MT-SD008LC
 MT-SHT010L / MT-SHT010LC
 MT-ST010L / MT-ST010LC

See circuit diagram A on [page 0726](#)

Precision Contact Sensors	MT-M
	MT-B
	MT-S
Fiber Optic Sensors	
Photoelectric Sensors	
Color Sensors	
Laser Sensors	
Proximity Sensors	
Precision Contact Sensors	
Area Sensors/ Safety Light Curtains	
Laser Scanners	
Digital Contact Sensors	
Laser Displacement Sensors	
Laser Micrometers	
Confocal Displacement Sensors	
Barcode Readers	
AI Vision Sensors	
RFID	
Infrared Temperature Sensors	
Pressure Sensors	
Flow Sensors	
Magnetic Sensors	
Ultrasonic Sensors	
Magnetic Scales	
Static Eliminators	

