

Standard Rod-Type Precision Contact Sensor MT-M Series



Ask SENPUM

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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.



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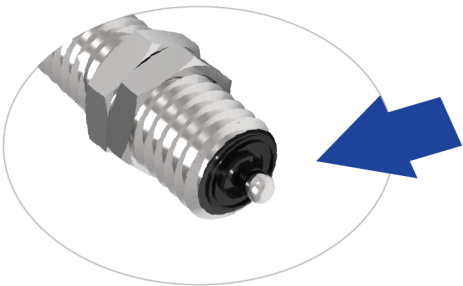
WhatsApp



LINE

Straight-rod type, simple and easy to use

Straight-rod contact method with non-contact principle, significantly extending service life.
M6/M8/M10 universal threads for easy installation.



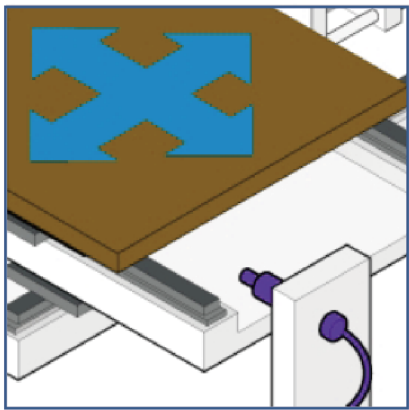
Ultra-high repeatability

±0.001 mm ultra-high repeatability, precise positioning

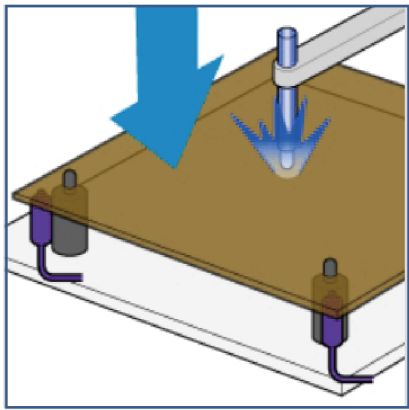
Repeatability
±0.001 mm

Precise positioning, more extensive applications

Workbench origin positioning



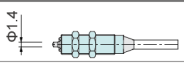
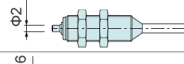
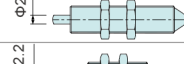
Welding origin positioning



More Features

- Maximum stroke 3 mm.
- Single/double output and NO/NC type selectable.
- M6/M8/M12 universal threads for easy installation.
- Red LED indicator for clear status visibility.

Product List

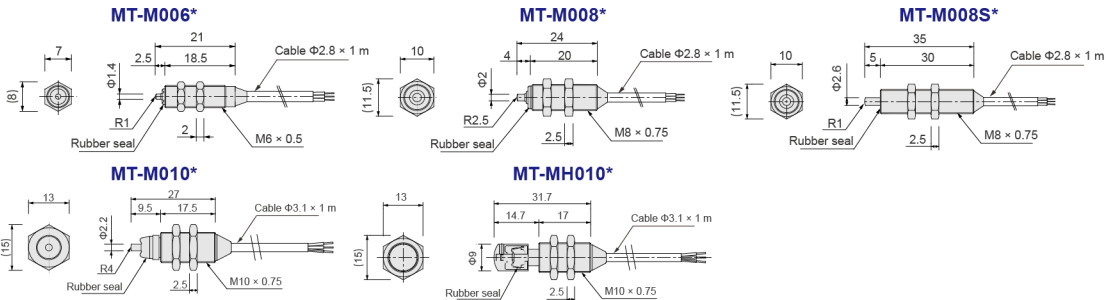
Type		Appearance	Stroke	Position repeatability (mm)	Operating force (N)	Mounting dimensions (mm)	Model
Standard-rod type	Rod-type Straight-line contact	 Cable Φ2.8 × 1 m	 0–1.2 mm	±0.001 mm	0.25 N	M6 × 18.5	MT-M006*
		 Cable Φ2.8 × 1 m	 0–1.5 mm		0.4 N	M8 × 20	MT-M008*
		 Cable Φ2.8 × 1 m			0.6 N	M8 × 30	MT-M008S*
	Capped rod-type Straight-line contact	 Cable Φ3.1 × 1 m	 0–3 mm		1 N	M10 × 17.5	MT-M010*
		 Cable Φ3.1 × 1 m				M10 × 17	MT-MH010*

Specifications

Type			Rod-type					Capped rod-type
			M6 threaded type	M8 threaded type		M10 threaded type		
Model	NO (OFF-ON)	With indicator	MT-M006L	MT-M008L	MT-M008SL	MT-M010L	MT-M010DL	MT-MH010L
	PNP	With indicator	MT-M006LP	MT-M008LP	MT-M008SLP	MT-M010LP	MT-M010DLP	MT-MH010LP
	NC (ON-OFF)	With indicator	MT-M006LC	MT-M008LC	MT-M008SLC	MT-M010LC	MT-M010DLC	MT-MH010LC
	PNP	With indicator	MT-M006LCP	MT-M008LCP	MT-M008SLCP	MT-M010LCP	MT-M010DLCP	MT-MH010LCP
Number of output signals			1 output				2 outputs	1 output
Stroke			1.2 mm	1.5 mm	3 mm			
Position repeatability			±0.001 mm					
Operating force			0.25 N	0.4 N	0.6 N	1 N		
Power voltage			5 to 24 VDC					
Control output			NPN; with indicator: 12 mA max					
Current consumption			With indicator: max. 12 mA					
Trigger position			0.2–0.5 mm				OUT1: 0.4±0.15 mm OUT2: 2.0±0.15 mm	0.2–0.5 mm
Hysteresis			0.1 mm or less					
Operating frequency			60 times/min					
Indicator position			Approx. 100 mm from the main unit (only available with indicator type)					
Material			Housing/Nut/Shaft: SUS303					
Mounting torque			2 N	5 N		12 N		
Protection class			IP67 equivalent					
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					
Weight			Approx. 100 g					

Dimensions

Unit: mm



I/O Circuit Diagrams

1 output with indicator

MT-M006L / M006LC
MT-M008L / M008LC
MT-M008SL / M008SLC
MT-M010L / M010LC
MT-MH010PL / MH010LC

See circuit diagram A
on page 0726

2 outputs with indicator

MT-M010DL
MT-M010DLC

See circuit diagram B
on page 0726

1 output with indicator

MT-M006LP / M006LCP
MT-M008LP / M008LCP
MT-M008SLP / M008SLCP
MT-M010LP / M010LCP
MT-MH010PLP / MH010LCP

See circuit diagram C
on page 0726

2 outputs with indicator

MT-M010DLP
MT-M010DLCP

See circuit diagram D
on page 0726

