

High-accuracy MT-Touch Sensor



0.5 micron in repetitive accuracy !!

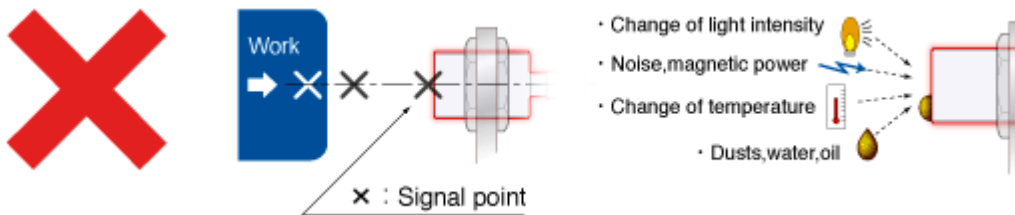
- Protective structure: IP67

P series

Contact type sensors are not affected by materials and shapes of detected objects.

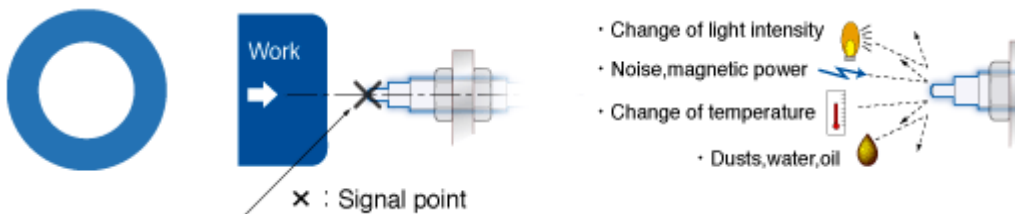
Non-contact sensors

Detecting distance varies depending on the condition of objects.
 (Material, shape, and dimension)



METROL contact sensors

The signal point is constant.



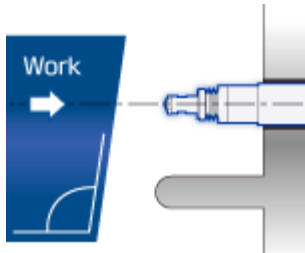
Protective structure IP67

Inner switching part is tightly sealed so that the sensor can be used in a harsh machining environment (water, oil, coolant).

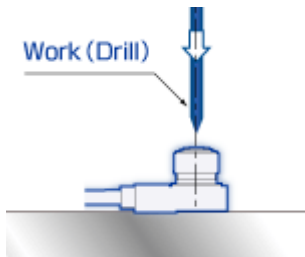


Applications

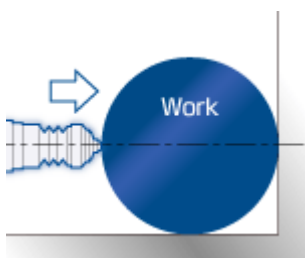
- **Angle discrimination**



- **Compensation for drill position**



- **Outer dimension measurement**




Specification

Output mode A : Normally open / B : Normally close
Repeatability *1 0.0005mm
Protective structure *2 IP67
Contact life time 3 million
Contact rating DC+5V~DC+24V 20mA (MAX) Resistance load

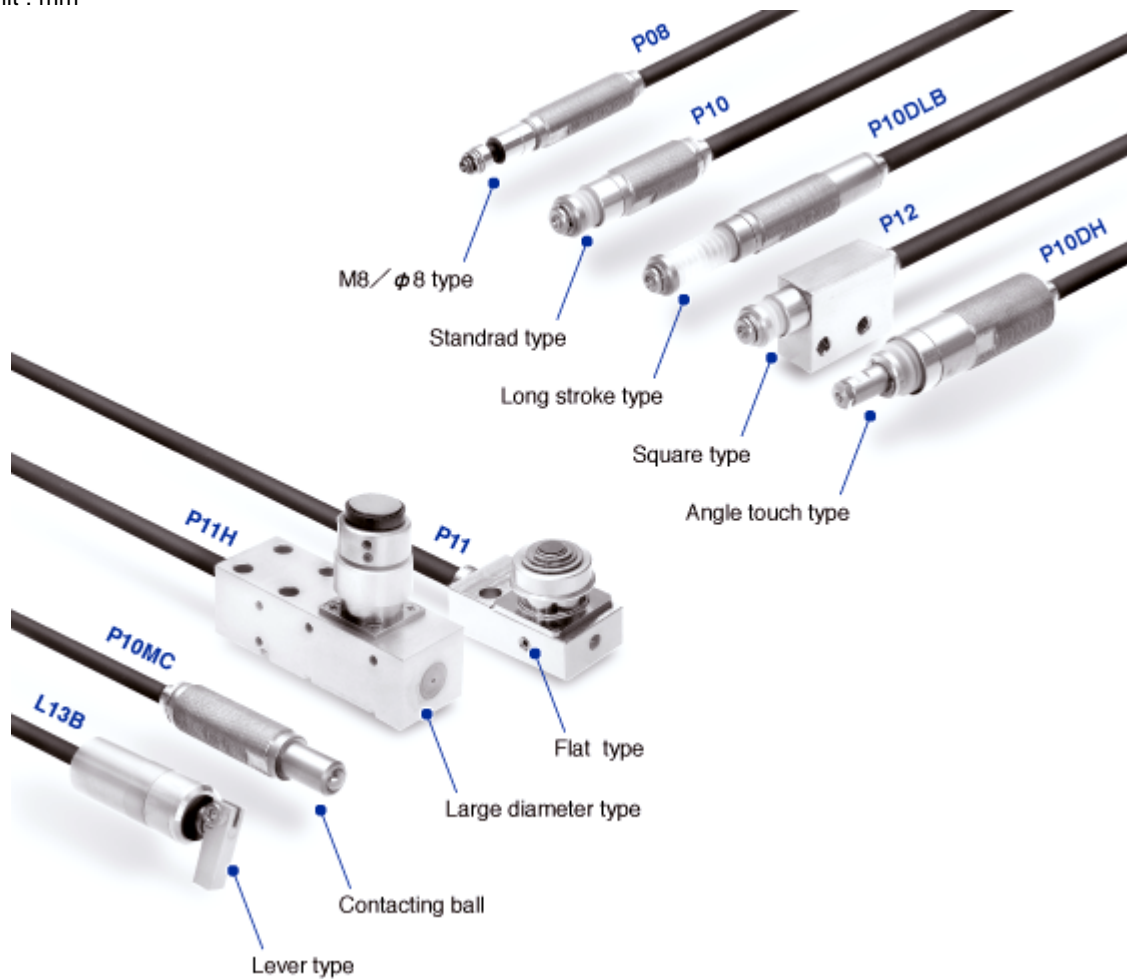
*1 Excludes P10MC

*2 Excludes P10MC / L10B





 (Only for P08/P10/P10DH/P10MC)








Lineup

unit : mm









Straight touch type P08/P10/P12

| Product name | Output mode | Stroke | Size | Length |
|--------------|-------------|--------|---------|---|
| P085DB-A | B: NC | 3mm | M8×0.5 |  |
| P08SB-A | B: NC | 3mm | φ8 |  |
| P10DA-A | A: NO | 3mm | M10×0.5 |  |
| P10DB-A | B: NC | 3mm | M10×0.5 |  |

| | | | | |
|----------|-------|------|---------|---|
| P10SA-A | A: NO | 3mm | φ10 |  |
| P10SB-A | B: NC | 3mm | φ10 |  |
| P10DKB-A | B: NC | 6mm | M10×0.5 |  |
| P10DLB-A | B: NC | 10mm | M10×0.5 |  |
| P12DA-A | A: NO | 3mm | 2-M4 |  |
| P12DB-A | B: NC | 3mm | 2-M4 |  |
| P12DLB-A | B: NC | 10mm | 2-M4 |  |

Sliding, angled and offset touch type [P10DH](#)

| Product name | Output mode | Stroke | Size | Length |
|--------------|-------------|--------|---------|---|
| P10DHA-TAW | A: NO | 3mm | M14×0.5 |  |
| P10DHB-TAW | B: NC | 3mm | M14×0.5 |  |
| P10SHA-TAW | A: NO | 3mm | M14×0.5 |  |
| P10SHB-TAW | B: NC | 3mm | M14×0.5 |  |
| P10DHKTB-TAW | B: NC | 6mm | M14×0.5 |  |
| P10DHLTB-TAW | B: NC | 10mm | M14×0.5 |  |



Straight touch, flat type [P11/P12](#)

| Product name | Output mode | Contacting part | Stroke | Size |
|--------------|-------------|-----------------|--------|------|
| P11DDB-DU | B: NC | 1-signal | 3mm | 2-φ4 |
| P11DMB-DU | B: NC | 1-signal | 3mm | 2-M4 |
| P11EDB-DU | B: NC | 1-signal | 5mm | 2-φ4 |
| P11EMB-DU | B: NC | 1-signal | 5mm | 2-M4 |
| P11GDB-DU | B: NC | 1-signal | 2mm | 2-φ4 |
| P11GMB-DU | B: NC | 1-signal | 2mm | 2-M4 |
| P21EDB-DU | B: NC | 2-signal | 5mm | 2-φ4 |
| P21EMB-DU | B: NC | 2-signal | 5mm | 2-M4 |

Large diameter contacting surface type [P11H/P12H](#)

| Product name | Output mode | Contacting part | Stroke | Size |
|--------------|-------------|-----------------|--------|------|
| P11DDHB-U | B: NC | 1-signal | 3mm | 4-φ4 |
| P11DMHB-U | B: NC | 1-signal | 3mm | 4-M4 |
| P21EDHB-U | B: NC | 2-signal | 5mm | 4-φ4 |
| P21EMHB-U | B: NC | 2-signal | 5mm | 4-M4 |

Sliding and angled touch type (Contacting ball type) [P10MC](#)

| Product name | Output mode | Stroke | Size | Length |
|--------------|-------------|--------|---------|---|
| P10MCA | A: NO | 1.2mm | M10×0.5 |  |
| P10MCB | B: NC | 1.2mm | M10×0.5 |  |

Sliding touch type (Lever type) L10B/L13B

Product name **Output mode** **Stroke** **Size** **Length**

L10B B: NC 2mm 2-φ4 

L13B B: NC 2mm φ15 

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