# SHEATH TYPE RESISTANCE SENSOR

**NEW-FLOW sheath type resistance sensor is high precision and reliability measuring temperature sensor.**

## Technical Data

**Head housing:** General. IP65. Explosion proof available
**PT100Ω Element**
**Dial size:** ∅1.6~∅12.75 mm on request
**Sheath material:** SS316
**Working temperature limited:** -200~650°C
according to applicable standards table.
**Measuring wiring method:** 2 wire,3 wire,4 wire, available

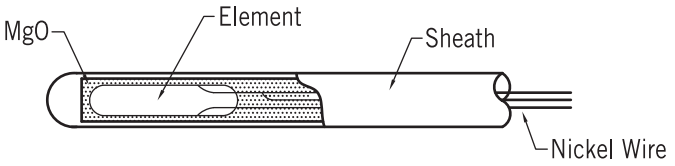


Explosion proof

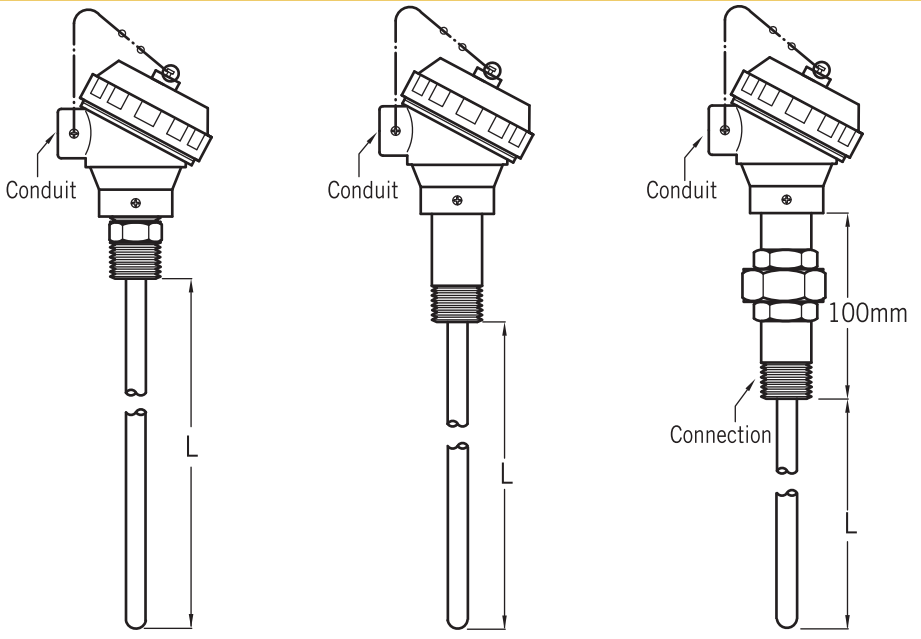


IP65

## Component List

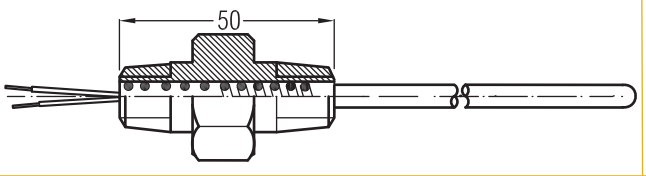
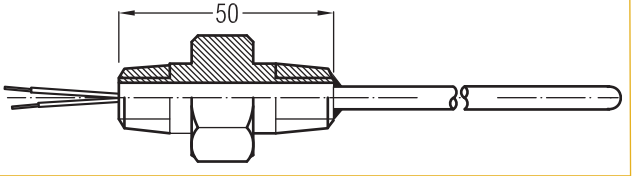
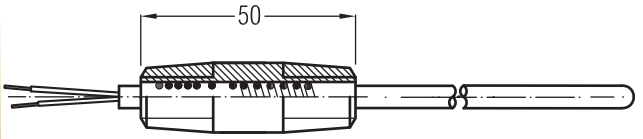
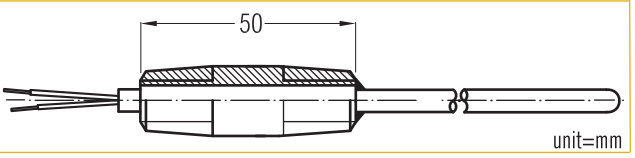



## Resistance Sensor Model




(A) RCH Type (B) RCN Type (C) RCU Type

## Sensor Type

| (A) Spring Loading Hexagonal Head Thread Type | (C) Welded Hexagonal Head Thread Type |
|---|---|
|  |  |
| (B) Spring Loading Nipple Thread Type | (D) Welded Nipple Thread Type |
|  |  |

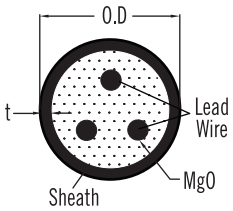


unit=mm

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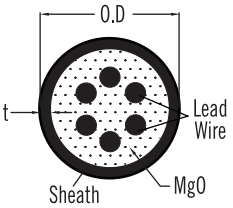
## Thermo Resistance Sensor Size

### SINGLE ELEMENT




| Sheath (unit:mm) | | | Lead Wire (unit:mm) | | Sheath max. length (unit:M) |
|---|---|---|---|---|---|
| O.D | t | Material | Diameter | Material | A |
| ∅1.6 | 0.25 | SUS316 | ∅0.25 | Nickel | 100 |
| ∅3.2 | 0.47 | | ∅0.51 | | 83 |
| ∅4.8 | 0.72 | | ∅0.76 | | 35 |
| ∅6.4 | 0.93 | | ∅1.00 | | 20 |
| ∅8.0 | 1.16 | | ∅1.30 | | 11.5 |
| ∅9.0 | 1.25 | | ∅1.46 | | 21 |
| ∅12.75 | 1.80 | | ∅1.50 | | 10.5 |

### DOUBLE ELEMENT




| Sheath (unit:mm) | | | Lead Wire (unit:mm) | | Sheath max. length (unit:M) |
|---|---|---|---|---|---|
| O.D | t | Material | Diameter | Material | A |
| ∅3.2 | 0.38 | SUS316 | ∅0.30 | Nickel | 83 |
| ∅4.8 | 0.72 | | ∅0.50 | | 35 |
| ∅6.4 | 0.93 | | ∅0.72 | | 20 |
| ∅8.0 | 1.16 | | ∅0.90 | | 11.5 |
| ∅9.0 | 1.25 | | ∅1.00 | | 21 |
| ∅12.75 | 1.80 | | ∅1.50 | | 10.5 |

## Wiring Method




Two Wires　　Three Wires　　Four Wires

## Standard Table For PT100 (R100/R0=1.385)

| IEC Pub. 751-1983 JIS C1604-1997 | | | ASTM E1137-1995 | |
|---|---|---|---|---|
| Class | Tolerance (°C) | Measuring Current | Class | Tolerance (°C) |
| A | ±(0.15+0.002\|t\|) | Under 2mA | A | ±(0.13+0.0017\|t\|) |
| B | ±(0.3+0.005\|t\|) | | B | ±(0.25+0.0042\|t\|) |

*\|t\| : display temperature (°C) on request range.

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## Ordering Information

| Model | RCH | RCN | RCU | | |
|---|---|---|---|---|---|

| Code | Head Housing Protection |
|---|---|
| | IP65 (1) HN (2) HP (3) HD (4) HI (5) HB |
| | Explosion proof (6) XDS (7) XDA (8) S1 (9) S2 |

| Code | Sensor Type | | |
|---|---|---|---|
| A | Spring Loading Hexagonal Head Thread Type | C | Welded Hexagonal Head Thread Type |
| B | Spring Loading Nipple Thread Type | D | Welded Nipple Thread Type |

| Code | Sensor Connection Size |
|---|---|
| | Thread type (1) ½″ NPT (2) ¾″ NPT (3) Option |

| Code | Conduit Connection |
|---|---|
| | (A) ½″NPT Female (B) ¾″NPT Female (0) option |

| Code | Sensor Dimensions "O.D" mm |
|---|---|
| | (1) 1.6 (2) 3.2 (3) 4.8 (4) 6.4 (5) 8.0 (6) 9.0 (7) 12.75 (0) option |

| Code | Sheath Material | | |
|---|---|---|---|
| A | SS316 | 0 | Option |

| Code | Element Type |
|---|---|
| 1 | PT100 |

| Code | Element No | | |
|---|---|---|---|
| S | Single | D | Double |

| Code | Sensor Class |
|---|---|
| | (1) Class A (2) Class B |

| Code | Sensor Insertion length "L" |
|---|---|
| | Plesae directly fill in requesting length (mm). |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

Complete Ordering Code

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