

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: Ø1.6~Ø12.75 mm on request

Sheath material: SS316

Working temperature limited: -200~650°C
 according to applicable standards table.

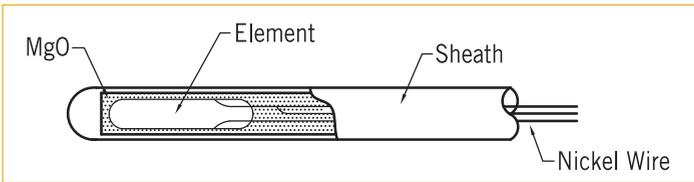
Measuring wiring method: 2 wire, 3 wire, 4 wire, available



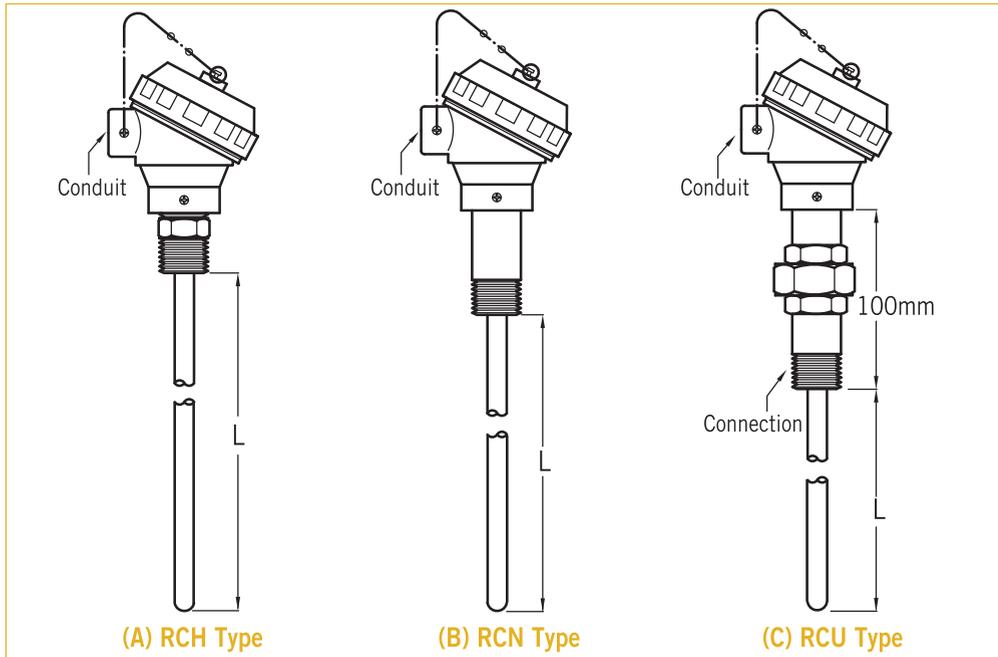
Explosion proof

IP65

Component List



Resistance Sensor Model



Sensor Type

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

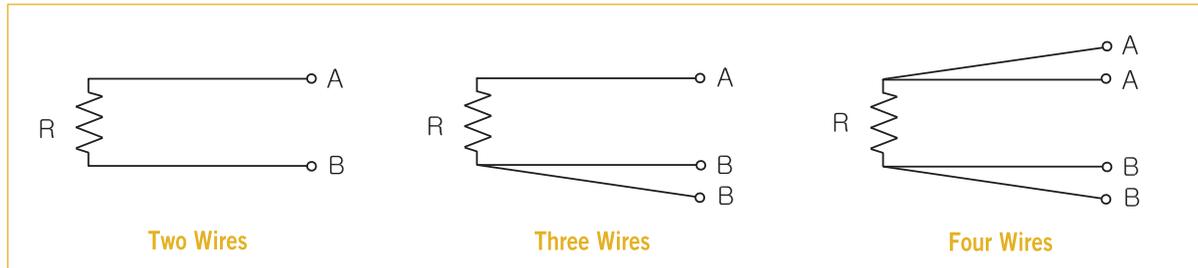
unit=mm

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 |
| | Ø1.6 | 0.25 | SUS316 | Ø0.25 | Nickel | 100 |
| | Ø3.2 | 0.47 | | Ø0.51 | | 83 |
| | Ø4.8 | 0.72 | | Ø0.76 | | 35 |
| | Ø6.4 | 0.93 | | Ø1.00 | | 20 |
| | Ø8.0 | 1.16 | | Ø1.30 | | 11.5 |
| | Ø9.0 | 1.25 | | Ø1.46 | | 21 |
| | Ø12.75 | 1.80 | | Ø1.50 | | 10.5 |

| DOUBLE ELEMENT | | | | | | |
|----------------|---------------------|------|----------|------------------------|----------|--------------------------------|
| | Sheath (unit:mm) | | | Lead Wire (unit:mm) | | Sheath max. length (unit:M) |
| | O.D | t | Material | Diameter | Material | A |
| | Ø3.2 | 0.38 | SUS316 | Ø0.30 | Nickel | 83 |
| | Ø4.8 | 0.72 | | Ø0.50 | | 35 |
| | Ø6.4 | 0.93 | | Ø0.72 | | 20 |
| | Ø8.0 | 1.16 | | Ø0.90 | | 11.5 |
| | Ø9.0 | 1.25 | | Ø1.00 | | 21 |
| | Ø12.75 | 1.80 | | Ø1.50 | | 10.5 |

Wiring Method



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 | $\pm(0.15+0.002 t)$ | Under 2mA | A | $\pm(0.13+0.0017 t)$ |
| B | $\pm(0.3+0.005 t)$ | | B | $\pm(0.25+0.0042 t)$ |

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

