

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

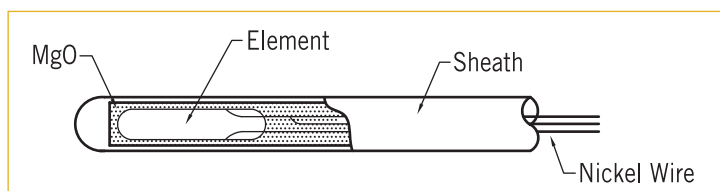
Dial size: Ø1.6~Ø12.75 mm on request

Sheath material: SS316

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

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

Component List

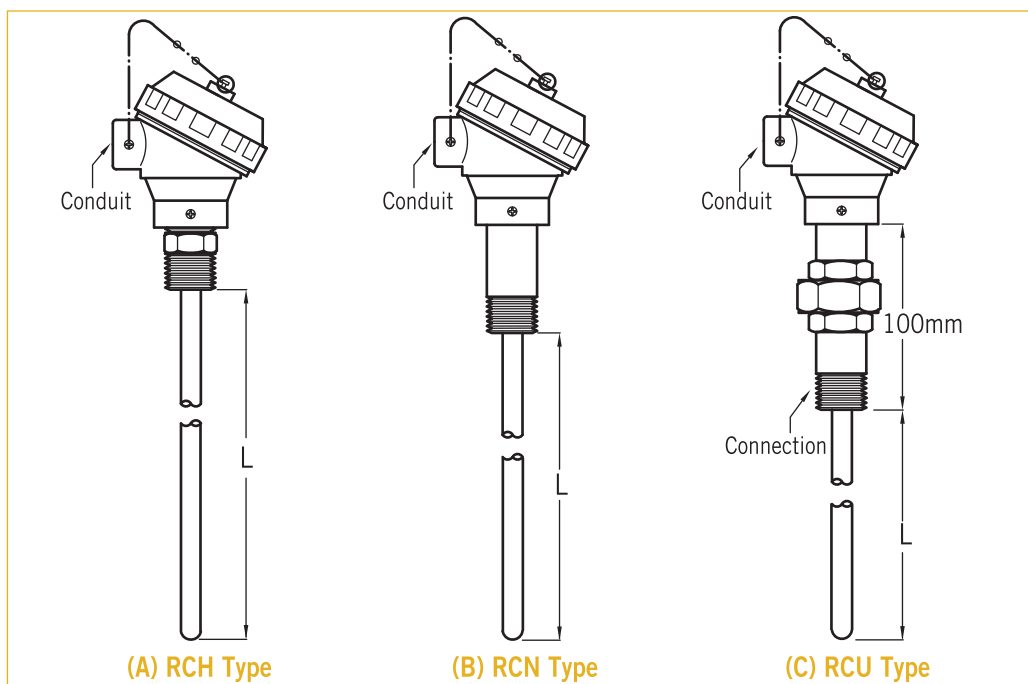


Explosion proof

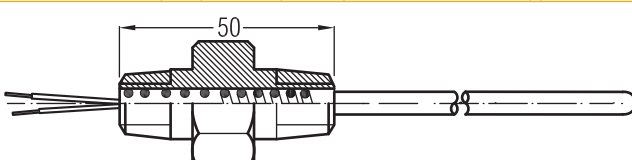
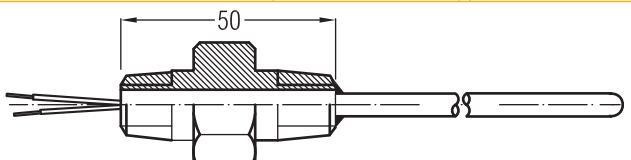
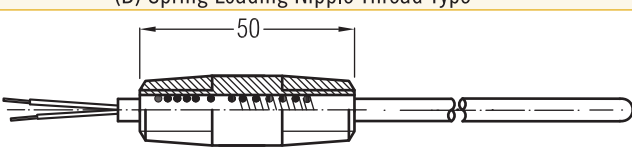
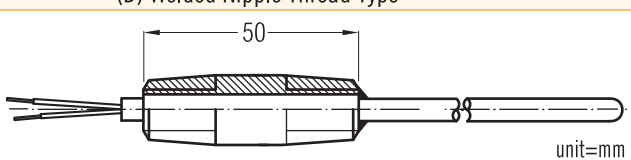


IP65

Resistance Sensor Model



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
	

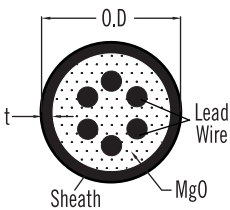
unit=mm

Thermo Resistance Sensor Size

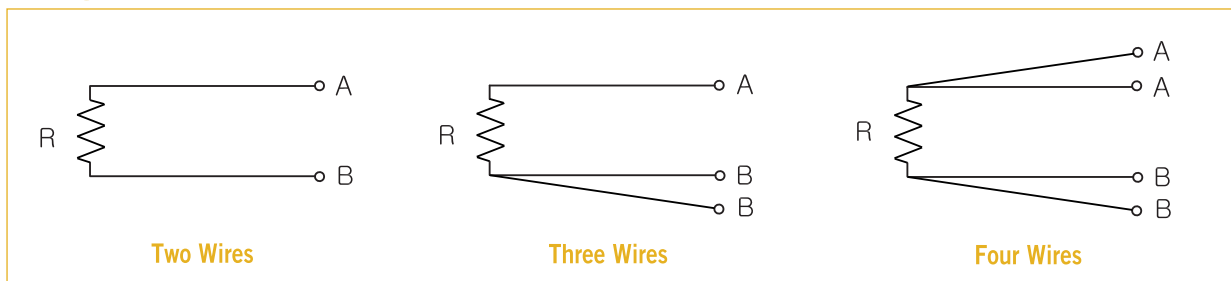
SINGLE ELEMENT

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

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.

Model	RCH	RCN	RCU									
	Code	Head Housing Protection										
		IP65 (1) HN (2) HP (3) HD (4) HI (5) HB										
		Explosion Proof (6) XDS (7) S1 (8) 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 (O) 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 insersion Length "L"											
	Plesae directly fill in requesting length (mm).											
Complete Ordering Code												