

SHEATH TYPE RESISTANCE SENSOR

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

Technical Data

Head Housing: Weather proof; Explosion proof available

PT100Ω Element

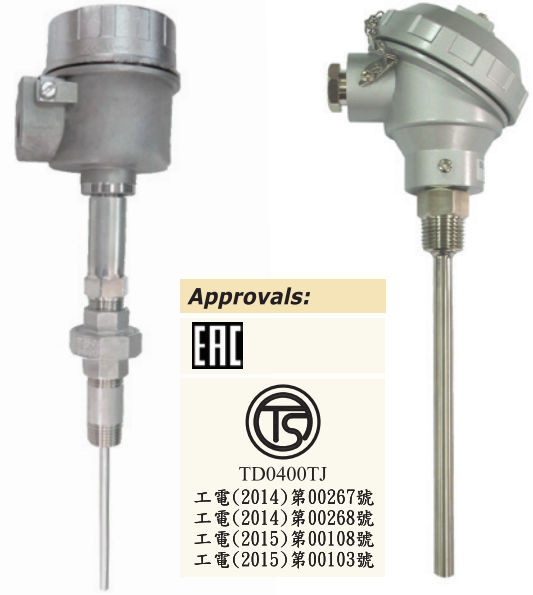
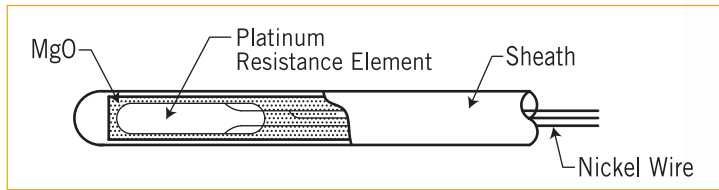
Sensor Dimensions: $\phi 1.0 \sim \phi 21.7$ mm on request

Sheath Material: SS316

Working Temperature Limited: $-200 \sim 650^{\circ}\text{C}$, according to applicable standards table.

Measuring Wiring Method: 2 wire, 3 wire, 4 wire available

Component List



Approvals:



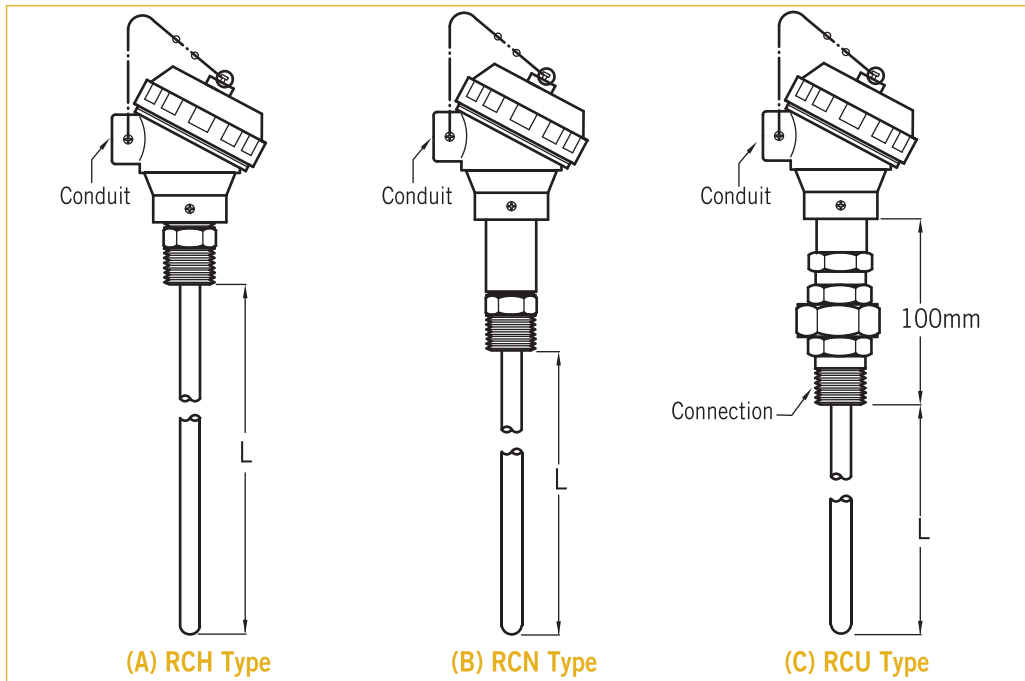
TD0400TJ

工電(2014)第00267號
工電(2014)第00268號
工電(2015)第00108號
工電(2015)第00103號

Explosion Proof

Weather Proof

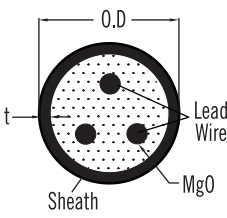
Resistance Sensor Model

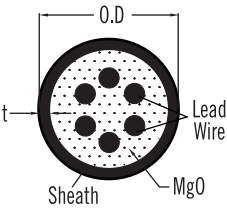


Sensor Type

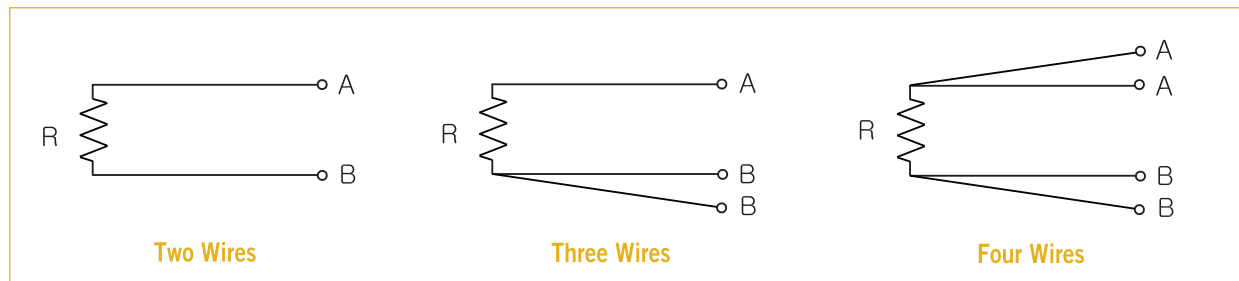
(A) Spring Loading Hexagonal Head Thread Type (RCU Type)	(C) Welded Hexagonal Head Thread Type (RCH Type)
(B) Spring Loading Nipple Thread Type (RCN Type)	(D) Welded Nipple Thread Type (RCN Type)

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		
Ø6.0	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		
Ø6.0	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
B	$\pm(0.3+0.005 t)$	B		$\pm(0.25+0.0042 t)$

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

Ordering Information

Model	RCH	RCN	RCU												
<div style="display: flex; flex-direction: column; justify-content: space-around; align-items: center;"> WWW.NEW-FLOW.COM • TEL: 886-7-8135500 • FAX: 886-7-8225588 • Email: info@new-flow.com </div>	Code		Head Housing Model												
	Weather Proof (1) HN (2) HP (3) HD (4) HI (5) HB (6) LS (7) option														
	Explosion Proof (8) XDS (9) XDA (10) S1 (11) S2 (12) ES (13) EA (14) option														
	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 Type												
	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) 6.0 (5) 8.0 (6) 9.0 (7) 12.75 (8) 1.0 (9) 1.2														
	(10) 2.3 (11) 2.7 (12) 3.0 (13) 3.175 (14) 3.8 (15) 4.0 (16) 4.5 (17) 4.72														
	(18) 5.0 (19) 6.35 (20) 6.4 (21) 10.0 (22) 12.0 (23) 12.7 (24) 13.8														
	(25) 15.0 (26) 16.0 (27) 18.0 (28) 19.0 (29) 20.0 (30) 21.34 (31) 21.7														
	Code		Sheath Material												
	A	SS316/SS316L						O	Option						
	Code		Element Type												
	1	PT100Ω													
	Code		Element No.												
	S	Single						D	Double						
	Code		Sensor Class												
(1) Class A (2) Class B															
Code		Sensor Insertion Length "L"													
Please directly fill in the requesting length (mm).															
Code		Transmitter													
1	NT-IB														
2	5335A (SIL)														
3	5335D (SIL)														
4	Other														
5	Without														
Code		Explosion Proof Type / Head Housing Model													
N	For Weather Proof Type														
A	<i>Certificate on Housing Only / S1 & S2:</i> EEx d IIC-T6, II 2 GD														
B	<i>Taiwan Explosion Proof Certification / ES & EA:</i> Ex d IIB + H2 T6 Gb														
S	<i>Certificate on Housing Only / XDS & XDA:</i> II 2 G D Ex d IIC T6 Ex tD A21 T100°C														
													Complete Ordering Code		