

Resistance Temperature Detector (MODEL : DRB)

What is Resistance Temperature Detector (RTD)?

Generally, electrical resistance of any metallic conductor varies according to temperature change. The sensor for measurement of temperature by utilizing this phenomenon is called "Resistance Thermometer" or "RTD" and can measure temperatures more precisely than other temperature sensor.

Features

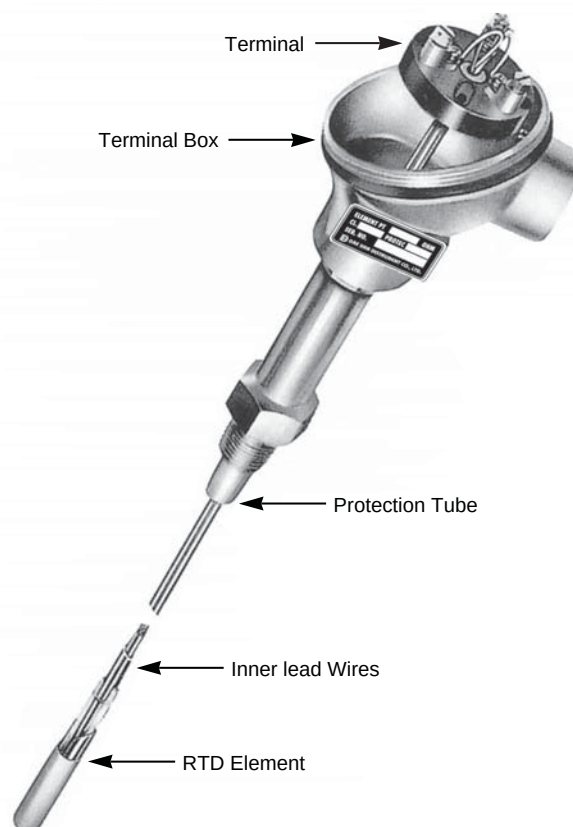
- 1) The use of high purity platinum resistance wire ensure precision measurement.
- 2) Excellent in stability and reproducibility.

Vibration & Shock Resistance

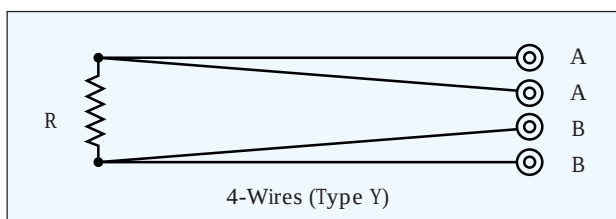
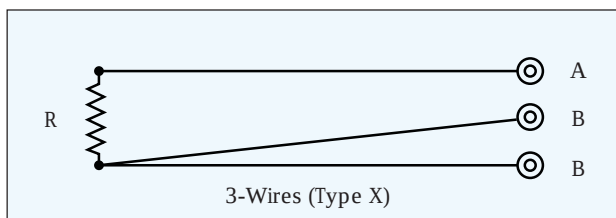
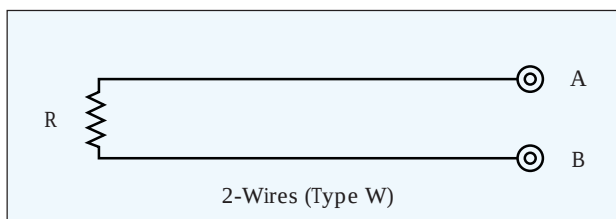
For the use under high flow-velocity, vibration or mechanical shock, RTD element and inner lead wires are shock-resistant stainless steel inner tube support.

Low Temperature Treatment

Low temperature often cause dew condensation in a protection tube that results in deterioration of insulation resistance. For use at sub-zero temperature, please specify "Low Temperature Treatment" that makes the sensing tip of RTD element covered with silicon or paraffin coating to protect from dewing.

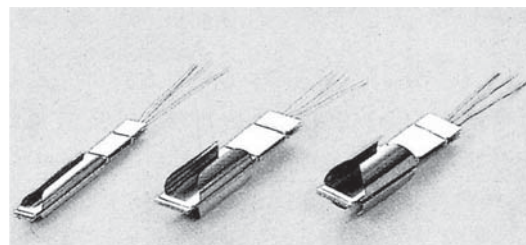


Structure of RTD Assembly



R = RTD element.
— = led wire.

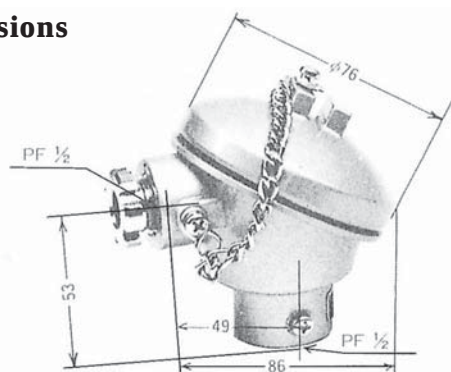
= Terminal
A or B = Code for terminal.



¥ 5 F S N # P B M

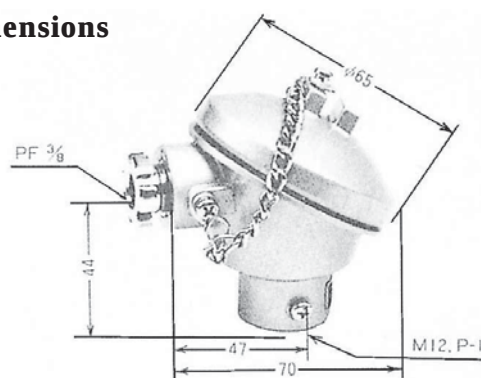
Type	Weather Proof SN
Material	Al-alloy diecast, Cast Iron
Conduit Dia.	PF 1/2 • PF 3/4
No. of Terminal	2 • 3 • 4 • 6
Terminal Block	Bakelite, Ceramic
Surface Finish	Melamine baked
Surface Color	Metallic silver

Dimensions



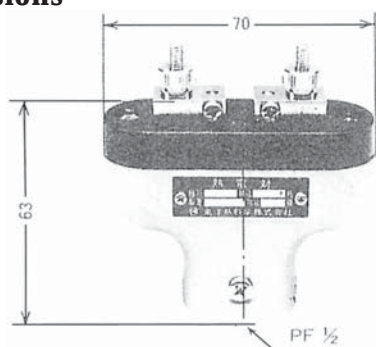
Type	Weather Proof SS
Material	Al-alloy diecast, Phenol Resin
Conduit Dia.	PF 3/8
No. of Terminal	2 • 3
Terminal Block	Bakelite, Ceramic
Surface Finish	Melamine baked
Surface Color	Metallic silver

Dimensions



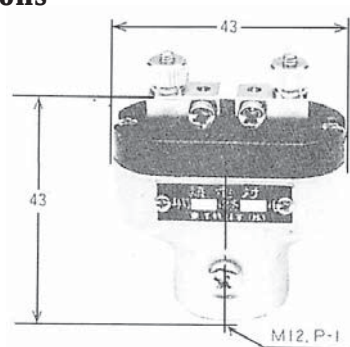
Type	Wall Mount SW
Material	Al-alloy diecast
Conduit Dia.	PF 1/2 • PF 3/4
No. of Terminal	2 • 3 • 4 • 6
Terminal Block	Bakelite, Ceramic
Surface Finish	Melamine baked
Surface Color	Metallic silver

Dimensions



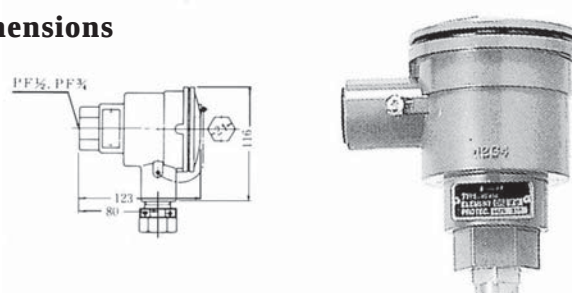
Type	Exposed Terminal SL
Material	Al-alloy diecast
Conduit Dia.	-
No. of Terminal	2
Terminal Block	Bakelite, Ceramic
Surface Finish	Melamine baked
Surface Color	Metallic silver

Dimensions



Type	*Flame Proof KG (d2 G4)
Material	Al-alloy diecast, Cast Iron Stainless Steel
Conduit Dia.	M16 • 20 • 25 • PF 1/2 • PF 3/4
No. of Terminal	2 • 3 • 4 • 6
Terminal Block	Bakelite (Ceramic)
Surface Finish	Melamine baked
Surface Color	Metallic silver

Dimensions



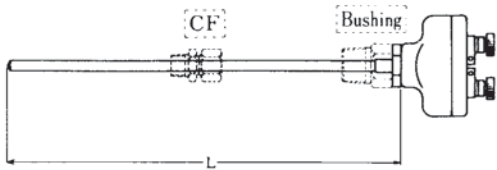
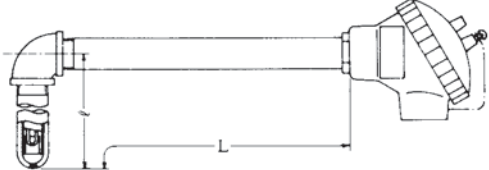
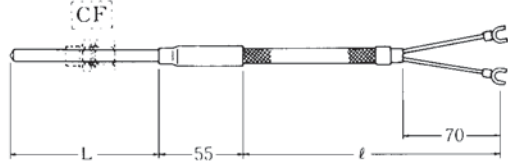
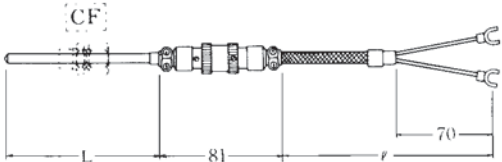
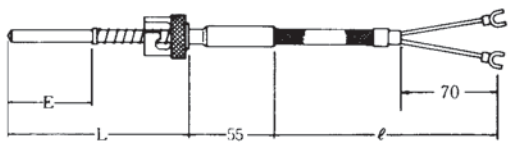
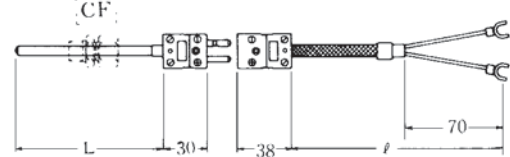
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DRB-001 Basic Type with Terminal Box	DRB-008 Ceramic Protection Tube Type (Metal Support)
DRB-002 Screwed Type	DRB-009 Ceramic Protection Tube Type (Flanged)
DRB-003 Flanged Type	DRB-010 Dual Protection Tube Type (Inner: Ceramic, Outer: Metal)
DRB-004 Spring-Loaded Type (Screwed)	DRB-011 Dual Ceramic protection Tube Type (Metal Support)
DRB-005 Metal Protection Tube Type	DRB-012 Dual Ceramic Protection Tube Type (Flanged Type I)
DRB-006 Metal Protection Tube Type (Screwed)	DRB-013 Dual Ceramic protection Tube Type (Flanged Type II)
DRB-007 Metal Protection Tube Type (Flanged)	DRB-014 Metal Connector Type

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DRB-015 Exposed Terminal Type 	DRB-018 L Type Assembly 
DRB-016 Flexible Lead Type 	DRB-019 Metal Connector type 
DRB-017 Bayonet spring Load Type 	DRB-020 Quick Connector Type (Compensated Contact pins) 

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MODELS	SUFFIX CODES		DESCRIPTION
RTD	DRB-001~020-----		형태를 참고하여 선정
Element	100S(D)-----		PT100 OHM 3-Wire 100S : PT100 OHM Single 100D : PT100 OHM Double
	1000S(D)-----		PT1000 OHM 3-Wire
	OP-----		Option
Protection Tube Material	4S(4L)-----		304SS(304L SS)
	6S(6L)-----		316SS(316L SS)
	I6 -----		Inconel600
	P4 -----		446SS
	21 -----		321SS
	TF -----		Teflon
	PV-----		PVC
	GL-----		Glass(Pyrex)
Protection Tube Diameter	OP-----		Option(재질 직접 표기)
	A-----		2.0mm
	B-----		3.2mm
	C-----		4.8mm
	D-----		6.4mm
	E-----		8.0mm
	F-----		9.5mm
	G-----		12.7mm
Length(L/I)		□□□-----	길이 직접표기(단위mm)
Mounting Connection	05-----		PT1/8 NPT의 경우 N05
	08-----		PT1/4 NPT의 경우 N08
	10-----		PT3/8 NPT의 경우 N10
	15-----		PT1/2 NPT의 경우 N15
	20-----		PT3/4 NPT의 경우 N20
	25-----		PT1 NPT의 경우 N20
	1025-----		10K 25A Flange
	1040-----		10K 40A Flange
	1050-----		10K 50A Flange
Enclosure	OP-----		Option(Connection 직접 표기)
	W-----		Weather Proof
Conduit Connection	E-----		Explosion Proof
	1-----		PF1/2
	2-----		PF3/4
Option		OP-----	Option(Connection 직접 표기)
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