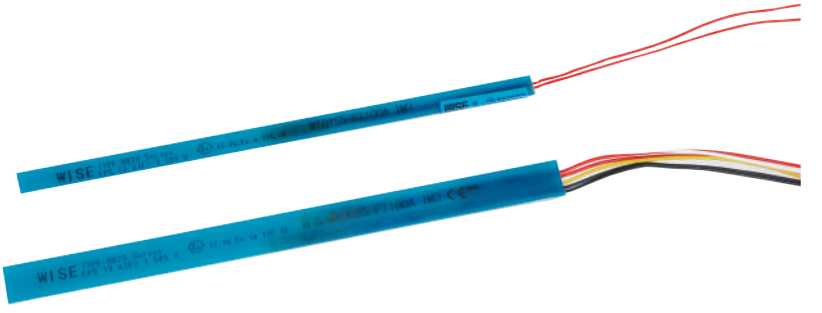
Intrinsic safety type stator winding RTD
Model : R820 series

Spec. sheet no. RD08-02



Service intended
The purpose of the stator winding RTD is to mainly detect and prevent overheating of motors. It is inserted in between a stator and a slot to measure a temperature. Stator winding RTD uses the phenomenon of changing electric resistance to measure a temperature. Since it has high stability and sensitivity, it is used to measure a temperature precisely. Also, it is made of a nonmetallic material, and therefore it has a structure of protecting element. It is designed to get flexibility and endure vibration and high pressure.

Standard features

Body material
High temperature epoxy glass

Temperature limit
Class F : 155℃ (311℉)
Class H : 180℃ (356℉)

Lead wires
3 wire or 4 wire, copper, AWG #22 (0.35 mm^2 , with PTFE or polyimide insulation)

Ambient temperature
Tamb = -40 ~ 80℃ : T6
Tamb = -40 ~ 130℃ : T4
Tamb = -40 ~ 95℃ : T5
Tamb = -40 ~ 180℃ : T3

Working temperature
-50 ~ 180℃

Standard
Explosive atmospheres. Equipment. General requirements
■ IEC 60079-0 / EN 60079-0 : 2009
Electrical apparatus for explosive gas atmospheres. Intrinsic safety "i"
■ IEC 60079-11 / EN 60079-11 : 2007

Explosion proof (ATEX)
Ⓔx II 1G Ex ia IIC T6 ...T3 Ga

Explosion proof (IECEx)
Ex ia IIC T6...T3 Ga

1. Base model

R821	RTD single element - 3 wire
R822	RTD double element - 6 wire
R823	RTD single element - 3 wire with shield wire
R824	RTD double element - 6 wire with shield wire
R825	RTD single element - 4 wire
R826	RTD double element - 8 wire
R827	RTD single element - 4 wire with shield wire
R828	RTD double element - 4 wire with shield wire

2. Explosion proof type

C	ATEX II 1G Ex ia IIC T6...T3 Ga
D	IECEx ia IIC T6...T3 Ga

3. Element

1	Platinum (0.00385 TCR), Class "AA" - EN 60751
2	Platinum (0.00385 TCR), Class "A" - EN 60751
3	Platinum (0.00385 TCR), Class "B" - EN 60751
0	Other

4. Temperature limited

F	Class F, 155℃ (311℉)
H	Class H, 180℃ (356℉)

5. Body thickness

A1	0.079" (2.0 mm)
B1	0.098" (2.5 mm)
C1	0.118" (3.0 mm)
D1	0.138" (3.5 mm)
E1	0.157" (4.0 mm)

6. Body length

1	6 mm (W) x 155 mm (L) - Single element
2	11 mm (W) x 155 mm (L) - Double element
0	Other - Min. 6 mm (W) ~ Max. 12 mm (W) x Min. 155 mm (L)

7. Lead wire insulation

F	PTFE
P	Polyimide

8. Lead wire length (m)

L1	1
L2	2
L3	3
L4	4
L5	5
L0	Other (Min. 300 mm)

9. Lead wire color

E	EN code
K	KS code
Z	Other

10. Option

T	Lead wire twist type
Z	Other

1	2	3	4	5	6	7	8	9	10	
R821	**D**	**2**	**H**	**A1**	**1**	**F**	**L3**	**K**	**T**	**Sample ordering code**