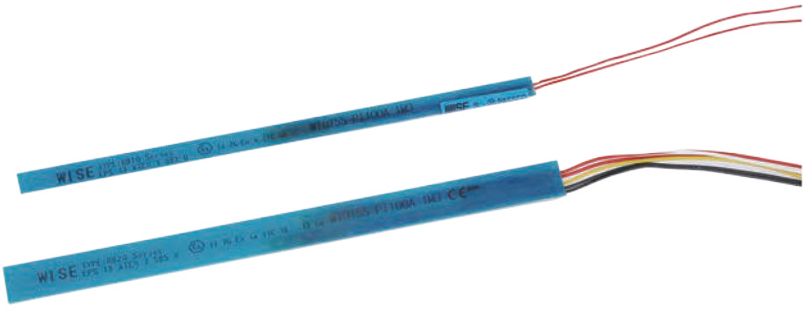
Increased safety type stator winding RTD
Model : R810 series

Spec. sheet no. RD08-01



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 (With FEP or polyimide insulation)

Ambient temperature
Tamb = -40 ~ 80 ℃ : T6
Tamb = -40 ~ 95 ℃ : T5
Tamb = -40 ~ 130 ℃ : T4
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. Increased safety "e"
■ IEC 60079-7 / EN 60079-7 : 2007

Certificates
KCS Ex e IIC Gb
ATEX II 2G Ex e IIC Gb
IECEx Ex e IIC Gb

Main order — Ordering information

1. Base model

R811	RTD single element - 3 wire
R812	RTD double element - 6 wire
R813	RTD single element - 3 wire with shield wire
R814	RTD double element - 6 wire with shield wire
R815	RTD single element - 4 wire
R816	RTD double element - 8 wire
R817	RTD single element - 4 wire with shield wire
R818	RTD double element - 8 wire with shield wire

2. Explosion proof type

A	ATEX II 2G Ex e IIC Gb
B	IECEx e IIC Gb
C	KCS Ex e IIC Gb

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 ˚F)
H	Class H, 180 ℃ (356 ˚F)

5. Body thickness

A1	0.079" (2.0 mm)

6. Body length (mm)

1	6 (W) x 155 (L) - Single element
2	11 (W) x 155 (L) - Double element
0	Other - Min. 6 (W) ~ Max. 14 (W) x Min. 155 (L)

7. Lead wire insulation

F	FEP

8. Lead wire length (m)

L1	1
L2	2
L3	3
L4	4
L5	5
L6	6
L7	7
L8	8
L9	9
L0	Other (Min. 300 mm)

9. Lead wire color

E	EN code
K	KS code
Z	Other

10. Option

T	Twisted type lead wire
Z	Other

1	2	3	4	5	6	7	8	9	10	
R811	**B**	**2**	**H**	**A1**	**1**	**F**	**L3**	**E**	**T**	**Sample ordering code**