



TR10-4 Industrial RTD Assembly

Spring Loaded (Neck Extension External)

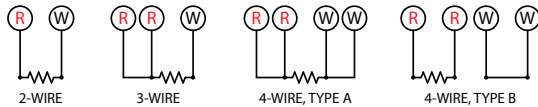
TR10-4 resistance temperature detectors (RTDs) are industrial assemblies supplied with or without a temperature transmitter. An extensive range of elements, connection heads, insertion lengths and neck lengths can be individually selected for the appropriate application.

Spring loading is achieved utilizing a spring loaded bushing as or as part of the neck extension. The spring loaded bushing can be combined with a nipple and union for ease of installation. An o-ring seal bushing is also available for direct mount into the process.

Replacement sensors can also be configured for this model.

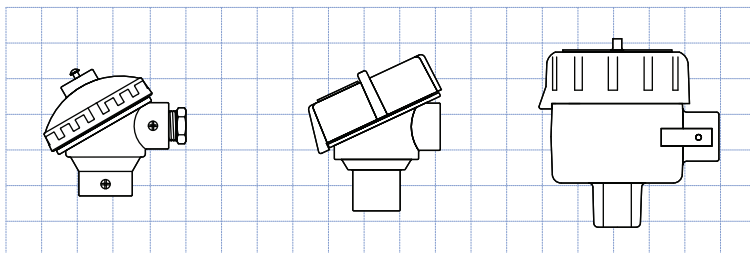
Features:

- The sensor is designed to be mounted into a thermowell or directly into the process (o-ring seal bushing).
- The assembly has electrical approvals for explosion proof hazardous locations, ingress protection and general purpose areas.
- Electrical authorities that have registered these approvals include CSA, FM and ATEX. The approvals must be with an attached WIKA thermowell.
- The RTD sensor is spring-loaded ensuring a positive contact to the required location.



Connection Heads

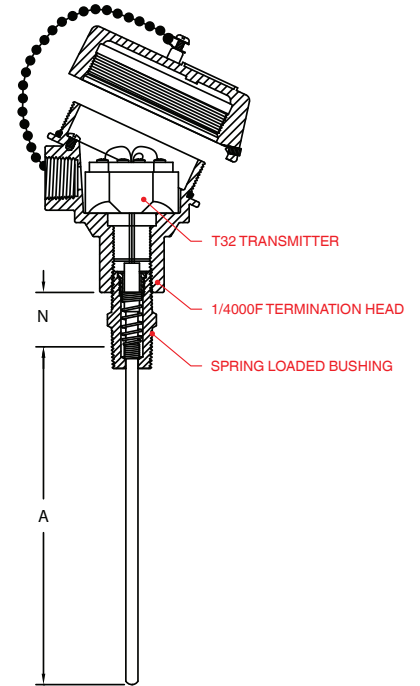
Imperial Grid 1" x 1"



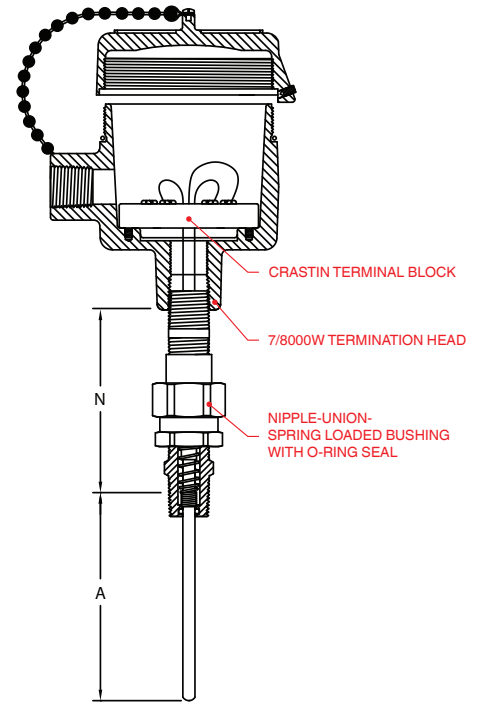
KN4-A
KN4-P

1/4000F
1/4000S

7/8000W



RTD ASSEMBLY SAMPLE
TR10-4-0-I-C-1AW13-6-SL-010-C-B-K-C-1-P-00600-Z



RTD ASSEMBLY SAMPLE
TR10-4-0-I-Z-7AW13-1-OU-030-C-B-K-C-1-P-00600-Z

TR10-4-....

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Create your product part number by selecting the appropriate assembly items from each of the categories below. Enter the item code into the applicable box to generate the part number.
 Note: Some configurations are unavailable. Your WIKA sales representative will notify you if you have made an incorrect selection.

Part Number	TR10-4-X-X-X-XXXXX-X-XX-XXX- X-X-X-X-X-XXXXX-X
1 Assembly description	
Code	
0	Industrial assembly configured
1	Industrial sensor configured (no termination head)
2 Unit of measure	
I	Imperial (inch)
M	Metric (mm)
3 Electrical approval	
C	CSA Ex-proof Class I Division 1 <i>WIKA Thermowell required</i>
F	FM Ex-proof Class I Division 1 <i>WIKA Thermowell required</i>
J	ATEX ZONE 1 gas Ex d IIB+H2 T6 acc. to directive 94/9/EC <i>WIKA Thermowell required</i>
Z	Without
4 Connection head	
1AW	1/4000 F (Aluminum)
1SW	1/4000 S (Stainless steel)
7AW	7/8000 W (Aluminum)
KAW	KN4-A (Aluminum)
KPW	KN4-P (Polypropylene)
ZZZ	Without
5 Instrument x Conduit entry	
11	1/2 NPT x 1/2 NPT
13	1/2 NPT x 3/4 NPT
12	1/2 NPT x M20x1.5
31	3/4 NPT x 1/2 NPT (reducer)
33	3/4 NPT x 3/4 NPT
32	3/4 NPT x M20x1.5
ZZ	Without

6 Terminal block / Transmitter	
1	Crastim terminal block
2	Ceramic terminal block
5	T15, Digital transmitter, 4...20mA, universally programmable
8	T19, Analogue transmitter, configurable measuring ranges (bridges)
6	T32, Digital transmitter, HART®, universally programmable
9	T53, Fieldbus transmitter, FOUNDATION Fieldbus, PROFIBUS® PA
B	T91.10, Analogue transmitter, fixed measuring range
Y	Without
7 Neck extension	
SL	Spring loaded bushing without o-ring seal (SS) ²
OS	Spring loaded bushing with o-ring seal (SS) ²
SU	Spring loaded bushing-Union-Nipple (SS)
OU	Nipple-Union-Spring loaded bushing with o-ring seal (SS) ²
8 N-Dimension (N) - Neck Extension Length	
010	1.0 inch (25 mm) - Standard for Bushings only (no union)
030	3.0 inch (76 mm)
040	4.0 inch (102 mm)
050	5.0 inch (127 mm) - Standard for Union-Nipple
060	6.0 inch (152 mm)
080	8.0 inch (204 mm)

9 RTD Sensor	
D	Pt100, class B (IEC 60751)
C	Pt100, class A (IEC 60751)
F	Pt100, 1/10 DIN of class B at 0°C
E	Pt10, class A (IEC 60751)
A	Cu10, class B
B	Ni120, class B
K	Pt1000, class B (IEC 60751)
J	Pt1000, class A (IEC 60751)
M	Pt100, class AA (IEC 60751)
10 Wiring configuration	
A	Single 2-wire
B	Single 3-wire
C	Single 4-wire
D	Single 4B-wire
E	Dual 2-wire
F	Dual 3-wire
G	Dual 4-wire
H	Dual 4B-wire
11 Temperature range	
K	-50...+250 °C, thin film
A	-50...+500 °C, thin film
M	-196...+250 °C, wire wound
T	-196...+450 °C, wire wound
H	-196...+600 °C, wire wound
Q	0...+750 °C, wire wound
G	0...+150 °C, thin film

12 Tip Construction	
C	General Purpose
F	Fast response (copper tip)
13 Sensor diameter	
1	1/4 inch / 0.250 inch (6.35 mm)
D	6.0 mm (0.235 inch)
14 Sheath material	
P	Stainless steel 316 / 316 L (1.4401 / 1.4435)
J	Inconel® 600 (2.4816)
15 A-Dimension (A) - Sensor Insertion Length	
*****	Please specify (e.g. 84 mm = 00084) (e.g. 9.5 inch = 00950)
16 Certificates	
1	Yes ¹
Z	Without

Notes:

¹See Data Sheet CERT.31 for certificate options and details.
²Rated to 100 psi @ 86°C, hydrostatic tested in H₂O