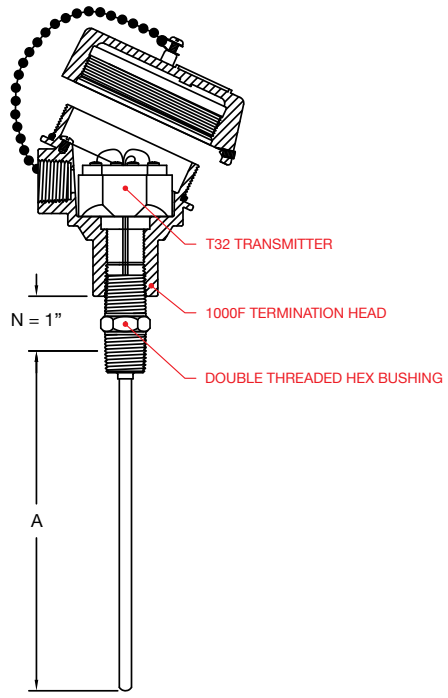
TR10-3 Industrial RTD Assembly

Fixed (Direct Mount Into Process)

TR10-3 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.

RTDs in this series are designed to be installed directly into the process. The welded fitting or optional compression fitting make this ideal for use without a thermowell.

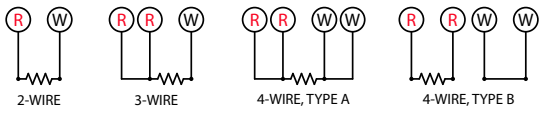
Replacement sensors can also be configured for this model.



RTD ASSEMBLY SAMPLE
TR10-3-0-I-C-1AW13-6-DS-010-C-B-K-C-1-P-00600-Z

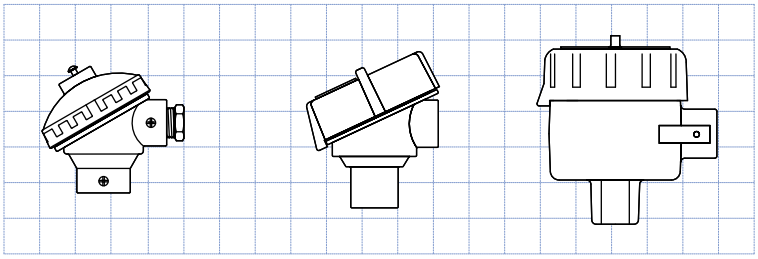
Features:

- The sensor is designed to be mounted directly into process.
- 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.
- Optional compression fitting allows insertion depth to be adjusted during installation.



Connection Heads

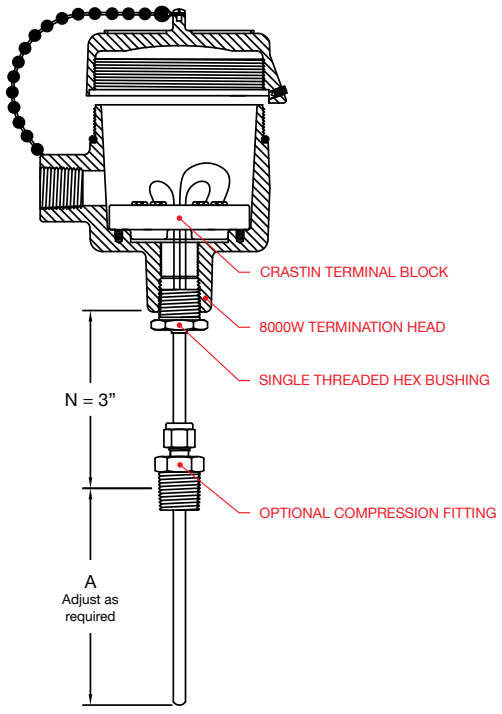
Imperial Grid 1" x 1"



KN4-A
KN4-P

1/4000F
1/4000S

7/8000W



RTD ASSEMBLY SAMPLE
TR10-3-0-I-C-7AW13-1-SC-030-C-B-K-C-1-P-00600-Z

Edmonton Tel: (780) 463.7035 | Burnaby Tel: (604) 299.3855 | Calgary Tel: (403) 237.5960 | Fort McMurray Tel: (780) 791.9995 | Grande Prairie Tel: (780) 357.0386 | Saskatoon Tel: (306) 664.1105 | Oakville Tel: (905) 337.1611 | Sarnia Tel: (519) 344.1339 | Montréal Tel: (514) 332.0330 | Quebec City Tel: (418) 952.7779

TR10-3-...

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	TR10-3-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
F	FM Ex-proof Class I Division 1
J	EEx-d (ATEX) acc. to directive 94/9/EC
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	Crastin terminal block
2	Ceramic terminal block
3	T12, Digital transmitter, universally progammable
8	T19, Analogue transmitter, configurable measuring ranges (bridges)
4	T24, Analogue transmitter for Pt100, PC-configurable
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

DS	Fixed double threaded hex bushing (316SS)
SS	Fixed single threaded hex bushing (316SS)
SC	Fixed single threaded hex bushing with 1/2 NPT compression fitting (SS body and ferrule)
DU	Nipple-Union-Fixed double threaded hex bushing (316SS)

8 N-Dimension (N) - Neck Extension Length

***	N-Dimension in units (e.g. 6.0" = 060, 150 mm = 150) Up to 12.0" (300 mm) Use Increments of 1.0" (25 mm)
ZZZ	Without

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)
I	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	-200...+250 °C, wire wound
T	-200...+450 °C, wire wound
H	-200...+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:

[1] See Data Sheet CERT.31 for certificate options and details.