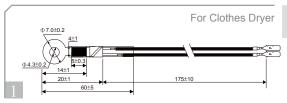


Screw-On Type

Feature: The sensor is water resistant and installed easily, and it can be installed on detected object for temperature detection. The highest operation

temeprature of the sensor is 200°C.

Application: The sensor does not contact liquid and steam directly and is recommneded for dry environment.



Component | Sensing top (NTC chip+terminal+epoxy)+tube +terminal+lead wire+terminal

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -30~200°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R100°C=3.3KΩ±2.5% **B Value** | B25/100=3988K±1.5%

Thermal Time Constant | Around 10 seconds (heating board)

Hi-Pot Test | AC 1500V 10mA (Max)

Epoxy Coating Type

Feature: Structure of the sensor is simple, and it is water resistant and responds fast

Application: The sensor is installed in wind channel of clothes dryer to detect temperature of intake air and exhaust air.



Component | Sensing top (NTC chip+epoxy)+lead wire

Moisture Resistance | 40°C 95% RH X 1000 hours

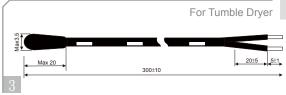
Operation Temperature | -10~105°C

Insulation Test | DC 500V 50MΩ (Min)

R Value | R25°C=10 K Ω ±1% **B Value** | B25/85=3435K±1%

Thermal Time Constant | Around 5 seconds (in water)

Hi-Pot Test | AC 1000V 10mA (Max)



Component | Sensing top (NTC chip+epoxy)+lead wire

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | 0~100°C

_________ Insulation Test | DC 500V 50MΩ (Min)

R Value | R60 $^{\circ}$ C=2.672K Ω ±2% **B Value** | B25/50=3956K± 2%

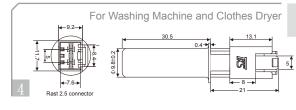
Thermal Time Constant | Around 5 seconds (in water))

Hi-Pot Test | AC 1000V 10mA (Max)

Metal Case Type

Feature: Stainless steel is humid and corrosion resistant, and is mainly used in household cleaning appliances. In addition, voltage withstand standard is increased, and voltage of the sensor ranges from 1500V to 3750V.

Application: The sensor is mainly used in washing machine, clothes dryer, all-in-one washer and dryer, etc.



Component | Sensing top (NTC chip+stainless steel cap) +housing

Moisture Resistance | 40°C 95% RH X 1000 hours

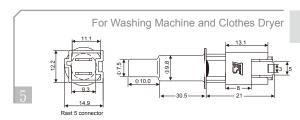
Operation Temperature | 0~+200°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R25°C=10 KΩ±1% **B Value** | B25/85=3975K±1.5%

Thermal Time Constant | Around 20 seconds (in water)

Hi-Pot Test | AC 3750V 10mA(Max)



Component | Sensing top (NTC chip+stainless steel cap) +housing+terminal

Moisture Resistance | 40°C 95% RH X 1000 hours

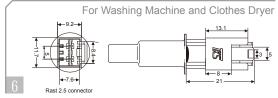
Operation Temperature | -20~+150°C

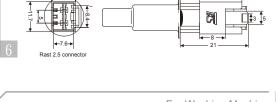
Insulation Test | DC 500V 100MΩ (Min)

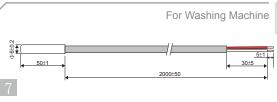
R Value | 70° C=8.514K Ω ±5% **B Value** | B0/100=3970K± 2%

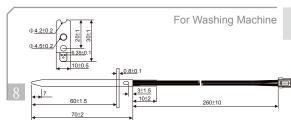
Thermal Time Constant | Around 13 seconds (in water)

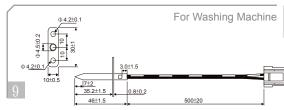
Hi-Pot Test | AC 1800V 10mA (Max)











Component | Sensing top (NTC chip+stainless steel cap) +housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | 0~105°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R25 $^{\circ}$ C=12K Ω ±2% **B Value** | B25/100=3760K±1.5%

Thermal Time Constant | Around 10 seconds (in water)

Hi-Pot Test | AC 3750V 10mA (Max)

Component | Sensing top (NTC chip+stainless steel cap) +cable wire

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~+105°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R25 $^{\circ}$ C=10 K Ω ±5% **B Value** | B25/85=3975K±(-1.5%-0)

Thermal Time Constant | Around 20 seconds (in water)

Hi-Pot Test | AC 1500V 10mA(Max)

Component | Sensing top (NTC chip+stainless steel cap +holder)+tube+lead wire+terminal+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~200°C

Insulation Test | DC 500V 100MΩ(Min)

R Value | R25°C=10KΩ±1% **B Value** | B25/85=3975K±1.5%

Thermal Time Constant | Around 3 seconds (in water)

Hi-Pot Test | AC 1500V 10mA (Max)

Component | Sensing top (NTC chip+stainless steel cap+holder) +lead wire+terminal+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~80°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R25 $^{\circ}$ C=10K Ω ±1% **B Value** | B25/85=3975K±1.5%

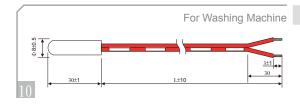
Thermal Time Constant | Around 3 seconds (in water)

Hi-Pot Test | AC 1500V 10mA (Max)

Plastic Case Type

Feature: Customizable structure of the sensor is for easy installation. In addition, the sensor withstands higher voltage for its better insulation and safety. but it takes more time to respond.

Application: The sensor is mainly used in washing machine, dish washer, clothes dryer, dish dryer, all-in-one washer and dryer, etc.



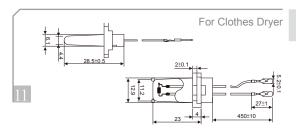
Component | Sensing top (NTC chip+plastic cap)+lead wire Moisture Resistance | 40°C 95% RH X 1000 hours Operation Temperature | -30~105°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R30°C=39.52KΩ ±3% **B Value** | B25/50=3910K±2%

Thermal Time Constant | Around 20 seconds (in water)

Hi-Pot Test | AC 1800V 10mA (Max)



Component | Sensing top (NTC chip+plastic cap)+plug+lead wire +terminal

Moisture Resistance | 60°C 95 % RH X 1000 hours

Operation Temperature | -25~175°C

Insulation Test | DC 500V 100MΩ(Min)

B Value | B0/100=3970K±2% **R Value** | R25°C=19.184KΩ~20.227KΩ R50°C=6.990KΩ~7.422KΩ

Thermal Time Constant | Around 10 seconds (in water) Hi-Pot Test | AC 1800V 10mA (Max)

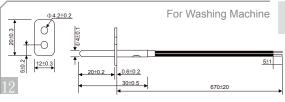


- 1. Temperature sensor is customizable in accordance with customer's needs, and THINKING provides consulting services for sensor design.
- 2. All specifications are subject to change without notice.
- 3. Please contact your sales representative if you have any questions.

Platinum Sensor (Pt sensor)

Feature: Pt sensor is similar to PTC thermistor, but it is more accurate and stable, and its highest operation temperature is 250°C.

Application: The sensor is mainly adopted by commercial or industrial washing machines and clothes dryers.



Component | Sensing top (Pt chip+stainless steel cap)+tube +lead wire

Moisture Resistance | 40°C 95% RH X 1000 hours

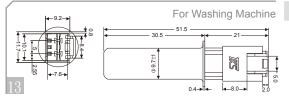
Operation Temperature | 0~+250°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R0°C=1000Ω (Class B)

Temperature Coefficient of Resistance | 3850ppm

Hi-Pot Test | AC 1500V 10mA(Max)



Component | Sensing top (Pt chip+stainless steel cap)+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

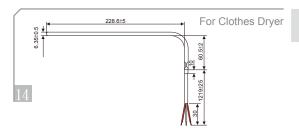
Operation Temperature | 0~+110°C

Insulation Test | DC 500V 100MΩ(Min)

R Value | $R0^{\circ}C=1000\Omega$ (Class B)

Temperature Coefficient of Resistance | 3750ppm

Hi-Pot Test | AC 1500V 10mA(Max)



Component | Sensing top (Pt chip+stainless steel cap)+tube +lead wire

Moisture Resistance | 40°C 95% RH X 1000 hours

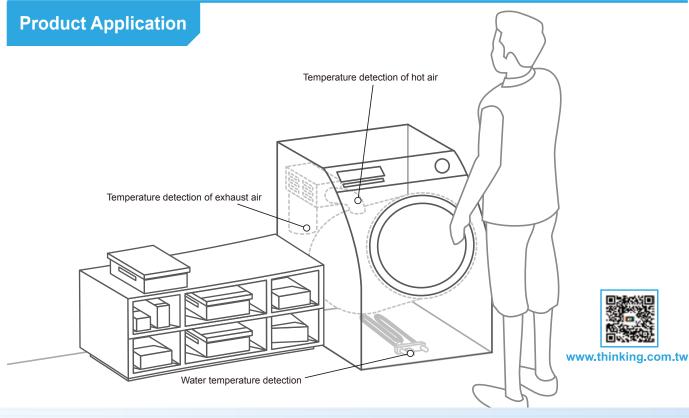
Operation Temperature | 0~250°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | $R0^{\circ}C=100\Omega$ (Class B)

Temperature Coefficient of Resistance | 3850ppm/k

Hi-Pot Test | AC 1500V 10mA(Max)



HEADQUARTER 12F, No.93, Dashun 1st Rd., Zuoying Dist., Kaohsiung, Taiwan 81357 / Tel: 886-7-5577660

TAIPEI, TAIWAN 3F, No.25, Lane 70, Wugong 2nd Rd., Xinzhuang Dist., New Taipei City, Taiwan 24888 / Tel: 886-2-22990652

JIANGSU, CHINA No.6, Longmen Rd., Wujin High & New-Tech Industrial Development Zone, Changzhou, Jiangsu, China 213161 / Tel: 86-519-86578999

GUANGDONG, CHINA No.45, East Rd., Sha-Tao Dist., Chang-An Town, Dongguan City, Guangdong, China 523863 / Tel: 86-769-85542016

BEIJING, CHINA Room 2707, Building 1, No. 88, Jian Guo Road, Chaoyang Dist., Beijing City, China 100025 / Tel: 86-010-85898940

QINGDAO, CHINA No.696, Hefei Rd., Shibei Dist., Qingdao City, China 266035 / Tel: 86-138-08993369/86-186-69738999

HUBEI, CHINA California Sunshine Community, Guanggu Rd. Donghu New Technical Development Zone, Wuhan City, Hubei, China / Tel: 86-189-95621889