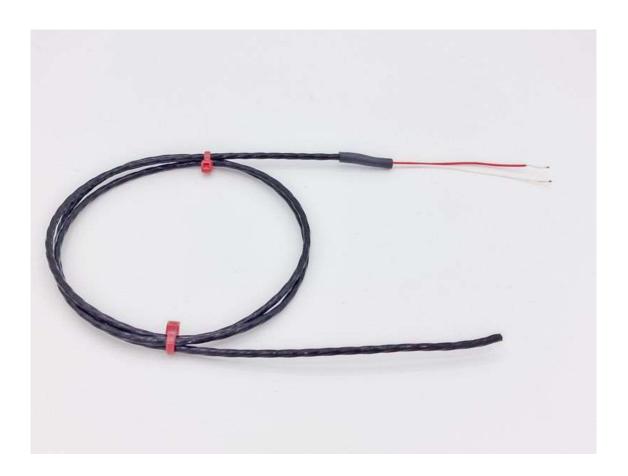


Hermetically Sealed Wire 10k Thermistor Sensor



Labfacility are the UK's leading manufacturer of Temperature Sensors, Thermocouple Connectors and associated Temperature Instrumentation and stockists of Thermocouple Cables. The Company has been trading since 1971 and is ISO 9001 accredited.

Labfacility have supplied Farnell for over 30 years, and an extensive range of our products are available to buy online, from stock, direct from Farnell.

Datasheet



Hermetically sealed 2-wire 10K NTC thermistor sensor for corrosive or wet environments (IP67 Rated)

Key Features:

- Resistance Value: 10K ohms
- Type: NTC (Negative Temperature Coefficient) thermistor, meaning its resistance decreases as the temperature increases.
- Temperature Range: Capable of accurately measuring temperatures from -30°C to +150°C.
- Wiring: 2-wire configuration for simple connectivity.

An IP67 wire sensor that is hermetically sealed for use in corrosive or wet environments.

This versatile multi-purpose sensor has been specifically designed for use in and to protect against corrosion in harsh or wet environments. It has a quick response time and can be easily cleaned. The impermeable PFA insulated flexible wire thermistor provides exceptional resistance to oils, fluids, gases, and chemicals and is electrically isolated.

The tip contains a 10K NTC Thermistor, which is weld-sealed to give a continuous PFA coating along the entire length and provide an atmosphere that is airtight and moisture-proof .

Typical Applications

- Pharmaceutical, Autoclaves and Sterilisation
- Food & Catering
- Environmental & Geothermal
- Laboratory and Research & Development

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Datasheet



Specifications

| General Description | An IP67 sensor that is hermetically sealed for use in | | | |
|-----------------------|---|--|--|--|
| | corrosive or wet environments | | | |
| Sensor Type | Hermetically sealed thermistor | | | |
| Thermistor | 10K NTC Thermistor | | | |
| BETA 25/85 | 3977K | | | |
| Cable Length | 1, 2 & 5m | | | |
| Cable Type | 2 wire flexible 7/0.2mm stranded conductors (24AWG) | | | |
| | with 75mm tails | | | |
| Core / Strands | 7/0.2mm (24AWG) | | | |
| Cable Termination | 75mm Bare Tails | | | |
| Max. Temperature | +150°C | | | |
| Min. Temperature | -30°C | | | |
| IP Rating | 67 | | | |
| Accuracy | +/- 0.2K (over 0-70°C) | | | |
| Important Information | Pressure tested at 40 PSI as standard | | | |

Ordering Information

| Number of Wires | Thermistor | Cable Length (mm) | Manufacturers Code | Farnell Order Code |
|--------------------|------------|-------------------------|---------------------|-----------------------|
| 2 | 10k | 1m | ZX-S2TH-1-PFA/PFA-T | 4461839 |
| 2 | 10k | 2m | ZX-S2TH-2-PFA/PFA-T | 4461840 |
| 2 | 10k | 5m | ZX-S2TH-5-PFA/PFA-T | 4461841 |

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Thermocouple & PRT Cable

Thermocouple cables are available in IEC or ANSI colour codes. Insulation types include PFA, PTFE, PVC &

Fibreglass. Available spool lengths include 10, 25, 50, 100 and 200m.

Best Sellers



ANSI PTFE Insulated Twin Twisted Farnell 2443696 Newark 73AC8304

ANSI PFA Insulated Twin Twisted Farnell 2443711 Newark 73AC8297

Fabricated and Specialist Thermocouples

Styles include; Magnet, Washer, Nozzle, Leaf, Bayonet & Bolt thermocouple. Various lengths and calibration types available.

Best Sellers



Washer Thermocouple Farnell 8597952 Newark 38K1555



Magnet Thermocouple Farnell 2081298 Newark 88T2877



Thermocouples

Including exposed junctions with fitted or moulded miniature plug and insulated leads, ideal for test and development applications.

1, 2, 3, 5 & 10m lengths available in IEC or ANSI colours.

Best Sellers



IEC Type T Exposed Junction Farnell 7076186 Newark 68C2613

IEC Type K Exposed Junction Farnell 4100748 Newark 15J1022



Thermocouple Connectors

Range of miniature or standard thermocouple connectors. Available in thermocouple types K, J, T, E, N, RS, B, and copper. IEC, ANSI & JIS colour codes available.



IEC Thermocouple PCB Socket Farnell 2347056 **Newark 06X5514**



IEC Thermocouple Plug

Farnell 7086362 Newark 67C1559



ANSI Thermocouple Socket

> Farnell 2347121 Newark 06X4819



RTD Detectors

Wire-wound type provides greater accuracy and stability but are vulnerable to shock.

Flat film type are resistant to shock and have quicker thermal response times.

Various lengths and diameters available, in class A, B and 1/10th Din.

Best Sellers



Farnell 8598550 Newark 38K0883

PT100 Wire **Wound Detector**

Farnell 2770776 Newark 25AC2608

PT100 Class A Thin Film Detector

Farnell 8598525 **Newark 38K0885**



Mineral Insulated Thermocouples

Available in various calibration types with a variety of terminations.

These include; Thermocouple plugs, Terminal heads and Thermocouple cable.



ANSI Thermocouple Farnell 2420317 Newark 53X3217

IEC Thermocouple with Mini Plug

Farnell 4248338 Newark 19J1166

IEC Melt Bolt Thermocouple Farnell 2816490 Newark 44AC8638



Resistance Thermometer Detectors (RTD) / Platinum Resistance Thermometers (PRT)

To suit a wide range of applications and styles, available in class A or B.



Sensor Probe Farnell 8598096 Newark 38K0974

Stainless Steel Tube with Teflon Lead Farnell 2420300 Newark 53X3459

Pt100 Outdoor/ Cold Store Temperature Sensor Farnell 2816462 Newark 44AC8648



L60 Fine Wire Thermocouple Welder

The Thermocouple Welder is a compact, simple-to-use instrument designed for thermocouple and fine wire welding. Supplied with foot switch, spare electrodes, pliers & safety glasses, impact clip and pen plate.

Best Sellers





L60+ Thermocouple & Fine Wire Welder and accessories Farnell 2897470 Newark 62AC8741

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