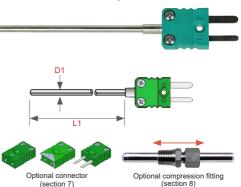


Datasheet

TFP/TFLP/TFS Mineral Insulated Thermocouple Sensor with Miniature Plug/Socket

Commonly used in applications where a quick, simple connection is required. Available with probe diameters ranging from 0.5mm up to 3.0mm and supplied with a miniature flat-pinned plug or socket rated -50...+220°C (higher temperature versions also available). Various probe sheath materials are available and the sensors can be used in a wide variety of applications, with temperatures ranging from as low as -100°C and up to +1300°C. The mineral insulated construction enables the sensors to be bent, twisted or flattened without impairing performance. The sensors can be supplied in lengths to suit your application requirements. The bending radius of the sheath is 10 x probe diameter; this can be reduced to 4 x, if a bending set is used.

- 0.5mm, 0.75mm, 1.0mm, 1.5mm, 2.0mm or 3.0mm Ø probe
- Accuracy to IEC 60584.2 Class 2 (Class 1 also available)
- Terminated with a miniature thermocouple connector (+220°C)
- Colour coded to IEC 60584.3 (BS EN 60584.3)
- · Ex-stock options available



Note: Type K thermocouple shown for illustrative purposes only

Mineral Insulated Thermocouple Sensor with Miniature Plug TFP Mineral Insulated Thermocouple Sensor with Miniature Locking Plug TFLP Mineral Insulated Thermocouple Sensor with Miniature Locking Plug TFLP Mineral Insulated Thermocouple Sensor with Miniature Socket TFS Indeel Chromium vs. Nickel Aluminium O'C to +1100'C K Vippel Nickel Chromium vs. Nickel Aluminium O'C to +1200'C K Vippel Nickel Chromium vs. Constantan -200'C to +300'C T Nickel Chromium vs. Constantan -200'C to +900'C E Incorel 600 K, N +1100'C 310 Nickel Chromium vs. Constantan -200'C to +1300'C 200'C Incorel 600 K, N +1100'C 600 Nickel Chromium vs. Constantan -200'C to +1300'C 200'C Also available: Incolory 800 (+1100'C), 253MA (+1150'C), Alloy C276 (+1100'C). Contact sales for further information. Incorel 600 K, N +1100'C 600 Orbit diamater (D1) Code Probe diamater (D1) Code Incorel 50 K, N +1100'C 200'C 200'C	1 sensor type						
Mineral Insulated Thermocouple Sensor with Miniature Socket TFS Mineral Insulated Thermocouple Sensor with Miniature Socket TFS Mineral Insulated Thermocouple Sensor with Miniature Socket TFS Yee K Nickel Chromium vs. Nickel Aluminium O'C to +1100'C K Yee K Nickel Chromium vs. Nickel Aluminium O'C to +1100'C K Yee K Nickel Chromium vs. Constantan -200'C to +350'C T Yee K Nickel Chromium vs. Constantan -200'C to +300'C N Yee K Nickel Chromium vs. Constantan -200'C to +1200'C N Statistainess Steel K, J, T, E +800'C 321 Stainless Steel K, N +1100'C 600 Nicrosil D Code probe diameter (D1) code O.5 1.5mm 1.5 2.0mm Mineral Insulated (isolated, ungrounded) I G Gode O.75mm 0.75 2.0mm 3.0mm 3.0 Insulated (isolated, ungrounded) I G Gode Gode O probe length (mm) (L1) Co	Mineral Insulated Thermocouple Sensor with Miniature Plug						
2 conductor/thermocouple type (IEC 60584.1) conductor temperature range code Type K Nickel Chromium vs. Nickel Aluminium 0°C to +1100°C K Type K Nickel Chromium vs. Nickel Aluminium 0°C to +130°C J Type K Nickel Chromium vs. Constantan -50°C to +350°C T Nickel Chromium vs. Constantan -200°C to +350°C T Nickel Chromium vs. Constantan -200°C to +300°C E 3 Intel sheath material available in thermocouple types maximum temperature code 321 Stainless Steel K, J, T, E +800°C 321 310 Stainless Steel K, N +1100°C 310 Inconel 600 K, N +1100°C 000 Also available: Incoloy 800 (+1100°C), 253MA (+1150°C), Alloy C276 (+1100°C). Contact sales for further information. 4 probe diameter (D1) code probe diameter (D1) code 0.5 mm 0.5 1.5mm 1.5 0.5 0.75mn 0.75 2.0mm 2.0 1.0m 1.0mm 1.0 3.0mm 3.0	Mineral Insulated Thermocouple Sensor with Miniature Locking Plug						
Type K Nickel Chromium vs. Nickel Aluminium 0°C to +1100°C K Tron vs. Constantan -50°C to +750°C J Copper vs. Constantan -200°C to +350°C T Type K Nicrosil vs. Nisi 0°C to +1200°C N Type K Nicrosil vs. Nisi 0°C to +1200°C N Type K Nicrosil vs. Nisi 0°C to +200°C E 3 metal sheath material available in thermocouple types maximum temperature code 321 Stainless Steel K H100°C 310 10 Nicrosil D K, N +1100°C 200 200 Also available: Incoloy 800 (+1100°C), 253MA (+1150°C), Alloy C276 (+1100°C). Contact sales for further information. 4 probe diameter (D1) code 0.5mm 0.75mm 0.75 2.0mm 2.0 1.0mm 1.0 3.0mm 3.0 Imperial sizes also available: Insulated (isolated, ungrounded) I G 6 probe length (mm) (L1) code Insulated (isolated, ungrounded) I 6 probe length (mm) (L1) code G G 6 probe length (mm) (L1) code G G 7 optional thermocouple Types K, J, T, N, E Miniature Therm	Mineral Insulated Thermocouple Sensor with Miniature Socket						
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Type J Iron vs. Constantan -50°C to +750°C J Type T Copper vs. Constantan -200°C to +350°C T Type E Nickel Chromium vs. Constantan -200°C to +300°C E 3 metal sheath material available in thermocouple types maximum temperature code 321 Stainless Steel K, J, T, E +800°C 321 310 Stainless Steel K, N +1100°C 600 Nicrosil D K, N +1100°C 600 Nicrosil D K, N +1100°C 200 Also available: Inconel 600 K, N +1300°C 200 Also available: Inconel 600 K, N +1300°C 200 Also available: Incom 0.5 1.5mm 1.5 0.75mm 0.75 2.0mm 2.0 1.0mm 1.0mm 1.0 3.0mm 3.0 Imperial sizes also available. G 5 sensing junction i I Code G G	Type K Nickel Chromium						
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Available in Thermocouple Types K, J, T, N, È FMLJ Miniature Thermocouple Plug (to match miniature thermocouple socket) FMP 8 optional 316 stainless steel compression fitting (to suit probe diameter) code 0.5mm CF05AS - 0.5mm CF075AS - 0.75mm CF075AS - 1.0mm CF10AS - 1.5mm CF15AS CF15CS 2.0mm CF20AS CF30CS See page 60 for our full range of compression fittings. 1 2 3 4 5 6 7 8	Available in Thermocouple Types K, J, T, N, E						
FMIP Available in Thermocouple Types K, J, T, N, E Optional 316 stainless steel compression fitting (to suit probe diameter) Code 0.5mm CF075AS - 0.75mm CF075AS - 1.0mm CF10AS - 1.0mm CF10AS - 1.0mm CF10AS - 1.0mm CF10AS - 3.0mm CF20AS CF30CS See page 60 for our full range of compression fittings. 1 2 3 4 5 6 7 8	Available in Thermocouple Types K, J, T, N, È						
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0.75mm CF075AS - - 1.0mm CF10AS - - 1.5mm CF15AS CF15CS - 2.0mm CF20AS CF20CS - 3.0mm CF30AS CF30CS CF30ES					1/4" BSPT	1/2" BSPT	
1.0mm CF10AS - - 1.5mm CF15AS CF15CS - 2.0mm CF20AS CF20CS - 3.0mm CF30AS CF30CS CF30ES					-	-	
1.5mm CF15AS CF15CS - 2.0mm CF20AS CF20CS - 3.0mm CF30AS CF30CS CF30ES				-	-		
2.0mm CF20AS CF20CS - 3.0mm CF30AS CF30CS CF30ES					- CE15CS	-	
3.0mm CF30AS CF30CS CF30ES See page 60 for our full range of compression fittings. 1 2 3 4 5 6 7 8						-	
See page 60 for our full range of compression fittings.						CF30ES	

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