

TSH Mineral Insulated Thermocouple Sensor with Standard Head Supplied with a heavy duty IP67 rated die cast alloy terminal head, the TSH range of sensors provide a versatile, robust

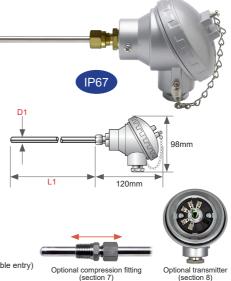
construction.

Available with 3.0mm, 4.5mm, 6.0mm and 8.0mm probe diameters, in lengths to suit your application requirements. 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 bending radius of the sheath is 10 x probe diameter; this can be reduced to 4 x, if a bending set is used.

The screw top lid has a robust chain ensuring it remains attached to the head. A ceramic terminal block inside the head makes connections to the extension cable very simple. The sensor can also be supplied with a linearised 4~20mA transmitter which can be pre-ranged to suit your requirements. The head has an M20 x 1.5mm cable entry thread and is supplied with a standard cable gland.

The head is attached to the sensor using a brass compression gland (stainless steel options available on request).

- 3.0mm, 4.5mm, 6.0mm or 8.0mm Ø probe
- · Accuracy to IEC 60584.2 Class 1 or Class 2
- · Terminated with IP67 rated heavy duty die cast alloy head (M20 cable entry) Colour coded terminals, IEC 60584.3 (BS EN 60584.3)
- · Ex-stock options available



Note: Type K thermocouple shown for illustrative purposes only

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1 sensor type					code
Mineral Insulated Thermocouple Sensor with Standard Terminal Head					TSH
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 J Iron vs. Constantan		-50°C to +750°C		J	
Type T Copper vs. Constantan			-200°C to +350°C		Т
Type N Nicrosil vs. Nisil			0°C to +1200°C		N
Type E Nickel Chromium vs. Constantan			-200°C to +900°C		Е
3 metal sheath material	available in thermocou	ple types	maximum ten	nperature	code
321 Stainless Steel	K, J, T, E	+800°C		С	321
310 Stainless Steel	+1100°C		310		
Inconel 600 K, N		+1100°C		600	
Nicrosil D K, N +1300					200
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
3.0mm	3.0		6.0mm		6.0
4.5mm	4.5mm 4.5 8.0mm				8.0
Imperial sizes also available.					
5 sensing junction simplex code					duplex code
Insulated (isolated, ungrounded)					21
Grounded (non-isolated)					2G
6 probe length (mm) (L1)					code
As required to suit your application (stock sensors also available)					e.g. 250
7 optional 316 stainless steel compression fitting co					de
(to suit probe diameter) 1/4" BSPT					1/2" BSPT
				CF30CS	CF30ES
4.5mm				CF45CS	CF45ES
6.0mm			CF60CS	CF60ES	
8.0mm				CF80CS	CF80ES
Brass adjustable compression fittings also available. See page 60 for our full range.					
8 optional head mounting 4~20mA transmitter (replaces ceramic terminal block)					code
Linearised, Head Mounting 4~20mA Transmitter, 24VDC Power Supply, Non-isolated (pre-ranged to suit your requirements)					TXHU (range) Example: TXHU (0/200°C)
See page 83 for a full specification of the TXHU transmitter. Isolated version also available.  ATEX versions also a					
order code (example)					





