

TSFB Mineral Insulated Thermocouple Sensor with Standard Head and Process Connection

Supplied with a heavy-duty IP67 rated die cast alloy terminal head, the TSFB range of sensors provide a versatile, robust construction.

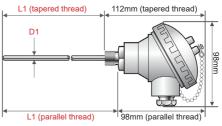
Supplied with a 6.0mm or 8.0mm diameter probe, in lengths to suit your application requirements. Various probe sheath materials are available and the sensors can be used in a wide variety of applications, with temperatures ranging from as low as -100°C and up to +1300°C (below thread).

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 fixed process connection, positioned directly below the terminal head to allow mounting into the application.

- · 6.0mm or 8.0mm Ø 316 stainless steel probe
- 1/4", 1/2" or 3/4" process connection (tapered or parallel)
- · 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







Optional transmitter (section 8)

	(section 8)				
1 sensor type				code	
Mineral Insulated Thermocouple Sensor with Standard Terminal Head and Process Connection				TSFB	
2 conductor/thermocouple type (IEC 60584.1)			conductor temperature range		
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		T N	
Type N Nicrosil vs. Nisil			0°C to +1200°C		
3 metal sheath material	available in thermocoup	le types	maximum temperature	code	
310 Stainless Steel	K		+1100°C	310	
321 Stainless Steel	K, J, T, E		+800°C	321	
Inconel 600	K, N		+1100°C	600	
Nicrosil D	N		+1300°C	200	
4 process connection (ite	m) code		process connection (item)	code	
1/4" BSPP	W	1/4" BSPT		С	
1/2" BSPP	Y		1/2" BSPT	E	
3/4" BSPP			3/4" BSPT		
NPT options also available					
5 probe diameter (316 stainless s		6	sensing junction	code	
6.0mm	6.0	Insula	Insulated (isolated, ungrounded), Simplex		
8.0mm 8.0					
7 probe length (mm) (L1)				code	
As required to suit your application e.g. 250					
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 available					
	order code (exa	mple) TS	1 2 3 4 5 6 7 SFB - K - 310 - Y - 6.0 - I - 250 - 7	8 TXHU (0/200°C)	



