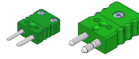


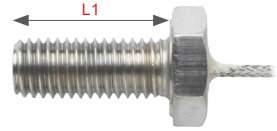
## TB Bolt Thermocouple Sensor

Commonly used for surface or vessel measurement. The bolt sensor is generally screwed into the surface which normally increases the speed of response and sensitivity of the measurement. Supplied with a stranded 7/0.2mm diameter, fibreglass insulated, stainless steel wire-braided cable at any length to suit your application. Suitable for use up to +250°C.

- Thermocouple types K, J, T
- Suitable for use up to +250°C
- Commonly used for surface or vessel measurement



M6, M8, M10, M12 bolt thread options available  
Optional connector (section 7)



1	sensor type		code
	Bolt Thermocouple Sensor		TB
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	T
3	bolt thread	code	bolt thread
	M6 x 1mm	M6	M10
	M8 x 1mm	M8	M12
4	bolt length (mm) (L1)		code
	As required to suit your application (standard length = 25mm)		e.g. 25
5	sensing junction		simplex code
	Insulated (isolated, ungrounded)		I
	Grounded (non-isolated)		G
6	cable length (mm)		code
	As required to suit your application		e.g. 2000
7	optional thermocouple connector (supplied attached to cable)		code
	Miniature Thermocouple Plug (K, J, T)		FMP
	Standard Thermocouple Plug (K, J, T)		RSP

See pages 53-58 for our full range of Thermocouple connectors.

order code (example)	1	2	3	4	5	6	7
	TB	- K	- M10	- 25	- I	- 2000	- FMP

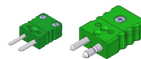
## TR Washer/Ring Thermocouple Sensor

Commonly used for surface or pipe measurement. Very easy to install and use: simply position the sensor under a bolt or rivet. Supplied with a stranded 7/0.2mm diameter, fibreglass insulated, stainless steel wire-braided cable at any length to suit your application. Nickel plated copper eyelet material, as standard. The sensing junction is grounded for fast response. Suitable for use up to +400°C.

- Easy to install
- Thermocouple types K, J, T
- Suitable for use up to +400°C
- Grounded (non-isolated) sensing junction
- Commonly used for surface or pipe measurement



M3.5, M6, M8, M10, M12 washer sizes available



Optional connector (section 5)

1	sensor type		code
	Washer/Ring Thermocouple Sensor		TR
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	T
3	washer size (D1)	code	washer size (D1)
	M3.5	M3.5	M10
	M6	M6	M12
	M8	M8	
4	cable length (mm)		code
	As required to suit your application		e.g. 2000
5	optional thermocouple connector (supplied attached to cable)		code
	Miniature Thermocouple Plug (K, J, T)		FMP
	Standard Thermocouple Plug (K, J, T)		RSP

See pages 53-58 for our full range of Thermocouple connectors.

order code (example)	1	2	3	4	5
	TR	- K	- M8	- 2000	- RSP