

### Fix Threaded

**MIEPL** make MTT03 Thermocouples are the most common, convenient, and versatile devices used to measure temperature. They convert units of heat into useable engineering units that serve as input signals for process controllers and recorders. A thermocouple consists of a welded 'hot' junction between two dissimilar metals, usually wires and a reference junction at opposite ends of the parent materials. This type of Thermocouple have Fixed Threaded Connector. Mainly used in Power, Chemical, steel and Oil Industries.



#### FEATURES

- Fixed extension
- Mineral insulated
- Transmitter mountable
- Exchangeable insert
- Spring loaded design

#### APPLICATION

- Chemical & petrochemical
- Oil & gas application
- Water, waste-water treatment
- Power & Utilities

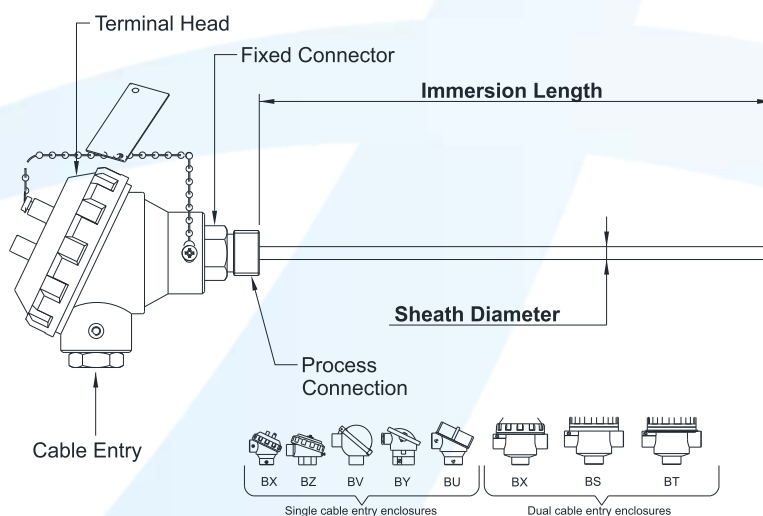
#### REFERENCE

- IEC-584.2 / ANSI MC-96.1

#### STANDARD SPECIFICATIONS

Element	: Type K (NiCr-Ni)
Accuracy	: Standard to ISA & ANSI MC96.1
No. of sensors	: Simplex
Hot junction	: Ungrounded
Sheath material	: AISI 316 SS
Sheath diameter	: 6.0 mm
Terminal head type	: Threaded, weatherproof, IP-65
Terminal head material	: Die-cast aluminum
Cable entry	: ¾" ET (F), 1 No.
Head extension	: Fixed threaded connection
Head extension length	: AISI 304 SS
Immersion length	: 150 mm
Process connection	: ½" NPT (M) / ½" BSP (M)

#### DRAWING



## ORDERING CODE

MTT03 - K - P - V - U - MF - M60 - BZ

1. ELEMENT	Type K (NiCr-Ni)	K					
	Type J (Fe-CuNi)	J					
	Type N (NiCrSi-NiSi)	N					
	Type E (NiCr-CuNi)	E					
	Type T (Cu-CuNi)	T					
	Type R (Pt-13%Rh/Pt)	R					
	Type S (Pt-10%Rh/Pt)	S					
	Type B (Pt/30%Rh-Pt/6%Rh)	B					
2. ACCURACY	Standard	P					
	Special	Q					
3. NO. OF SENSORS	Simplex	V					
	Triplex	X					
	Duplex	W					
	Ungrounded	U					
	Grounded	G					
4. HOT JUNCTION	AISI 316 SS				MF		
	AISI 310 SS				ME		
	AISI 316L SS				MG		
	Inconel 600				MQ		
5. SHEATH MATERIAL	3.0 mm					M30	
	5.0 mm					M50	
	6.0 mm					M60	
	8.0 mm					M80	
6. SHEATH DIAMETER	WP, IP 65, threaded cover						BZ
	WP, IP 67, threaded cover						BX
	Flame proof, IP 67, Gr IIA, IIB						BS
	Explosion proof, IP 67, Gr IIC						BT
	WP, IP 65, Hinged type						BV
	WP, IP 65, cover fitted with 2 screws						BY
	Ex-Proof to CSA,FM,ATEX [Ex-d]						BU

## ORDERING CODE

		ML	CO	MC	4NM
8. ENCLOSURE MATERIAL	Die-cast aluminum	ML			
	AISI 304 SS		MC		
	AISI 316 SS		MF		
9. CABLE ENTRY	3/4" ET (F), 1 No.		C0		
	1/2" NPT (F), 1 No.		C1		
	M20 x 1.5mm (F), 1 No.		C2		
	3/4" NPT (F), 1 No.		C3		
	3/4" ET (F), 2 Nos.		C5		
	1/2" NPT (F), 2 Nos.		C6		
	M20 x 1.5mm (F), 2 Nos.		C8		
	3/4" NPT (F), 2 Nos.		C9		
10. HEAD EXTENSION MATERIAL	AISI 304 SS			MC	
	AISI 316 SS			MF	
11. IMMERSION LENGTH (IL)	50 mm up to 10,000 mm				
12. PROCESS CONNECTION	1/2" NPT (M)				4NM
	3/4" NPT (M)				5NM
	M20 X 1.5 mm (M)				4MM
	1/2" BSP (M)				4BM
	3/4" BSP (M)				5BM
13. OTHER OPTIONS	Calibration Certificate	SB	SC, cable gland, AISI 316 SS WP		JH
	Tag plate, AISI 304 SS	WF	DC, cable gland, AISI 316 SS WP		JI
	SC, cable gland, Ni-brass WP	JD	SC, cable gland, AISI 316 SS FP		JN
	DC, cable gland, Ni-brass WP	JE	DC, cable gland, AISI 316 SS FP		JO
	SC, cable gland, Ni-brass FP	JJ	Plug fitting for CE, AISI 304 SS		JB
	DC, cable gland, Ni-brass FP	JK	Plug fitting for CE, AISI 316 SS		JC
	SC, cable gland, AISI 304 SS WP	JF	Plug fitting for CE, Aluminum		JU
	DC, cable gland, AISI 304 SS WP	JG	SS base plate for transmitter		JS
	SC, cable gland, AISI 304 SS FP	JL	Head mount transmitter		JT
	DC, cable gland, AISI 304 SS FP	JM			

### Ordering Example

MTT03 - MTT01 - K - P - V - U - MF - M60 - BZ - ML - C0 - MC - 4NM

- Other sheath diameters, connections are available, please contact factory for details..
- WP = Weatherproof, FP = Flame proof, SC = Single Compression, DC = Double Compression, CE = Cable Entry
- Transmitter output shall be 4...20 mA as standard, any other output required, please contact factory for details.
- NUN assembly in ASTM A105 is provided with Cd plating.