

SPECIAL PURPOSE

RUBBER COMPOUND MIXER TEMPERATURE SENSORS

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The below illustrated temperature sensors are those most commonly used in the mixing of rubber compounds and other abrasive substances. These mixers are generically referred to as **Banbury Mixers**, and may use either a thermocouple or a RTD to measure the compound temperature. All standard sensors are individually tested to meet or surpass the Industry Time Response Test Standard. Thermocouple sensors are supplied with grounded hot junctions as standard. RTD sensors are supplied with 3 wire 100 ohm platinum elements, with a .00385°C/°C temperature coefficient, and with a ± .12% accuracy at 0° C. Sensors may be ordered with a choice of either a hard-chrome plated tip, or with a XH-5 coated tip that provides greater abrasion and wear resistance.

FIGURE 1

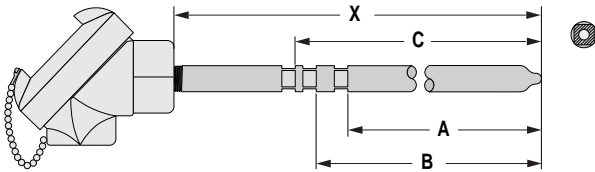


FIGURE 2

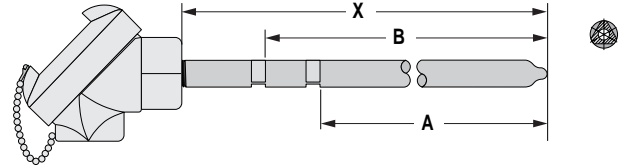


FIGURE 3

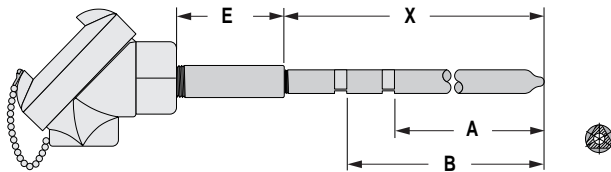
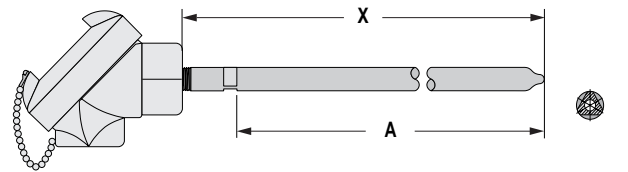


FIGURE 4



All mill slots are 5/16" wide. Abrasion resistant tips are .625" OD x 2(1/2)" long

EXAMPLE ORDER NUMBER:

J050G - **CM** - **10** - **10**

1

MEASURING ELEMENT		
ORDER CODE		ELEMENT TYPE
SINGLE	DUPLEX	
J050G	JJ050G	Type J thermocouple
RBF050	RBF2050	100 ohm platinum RTD

To order other thermocouple types replace 'J' in the above order code with desired thermocouple type (K, T, E)

3

TERMINATION OPTIONS	
ORDER CODE	DESCRIPTION
10	Aluminum screw cover head
1006	Supplied with 6" leads without head
1036	Supplied with 36" leads without head

2

MOUNTING CONFIGURATION				
ORDER CODE		MOUNTING NOTCH CONFIGURATION	TYPICAL APPLICATION BY MIXER MODELS	FIG. NO.
HARD CHROME PLATED TIP	XH - 5 COATED TIP			
10	12	3 notch (square)	11D, F80, 9D, 3D	1
20	22	2 notch (triangular)	F270, F620	2
20E	22E	2 notch (triangular w/ nipple extension)	F370, F620	3
40	42	1 notch (triangular)	F270	4
90	92	2 notch (triangular)		2

Note: Applications are typical but may vary by machine

CRITICAL SENSOR DIMENSIONS						
MOUNTING CONFIG. CODE	FIG. NO.	DIMENSIONS IN INCHES				
		A	B	C	X	E
10 or 12	1	9(1/16)	9(13/16)	10(5/16)	13	
20 or 22	2	13(31/32)	15(31/32)		18	
20E or 22E	3	13(31/32)	15(31/32)		17(5/8)	5
40 or 42	4	10(7/32)			12	
90 or 92	2	13(15/32)	15(15/32)		18	

All notches are 5/16" wide (nominal)