

## MODEL 1080 ALUMINUM EXPLOSION PROOF THERMOCOUPLE HEAD

- EXPLOSION PROOF CERTIFIED
- NEMA 4X OR IP66 EQUIPMENT RATING
- STAINLESS STEEL BALL CHAIN
- WIDE RANGE OF ACCESSORIES
- PROVISION FOR CUSTOM STAINLESS STEEL NAME PLATES



### Introduction

#### Material of Construction:

Copper-Free Aluminum

#### Certification:

FM/CSA/ATEX/IECEX Explosion Proof Certified, NEMA 4X / IP68

#### Connections

1/2" NPT, 3/4" NPT, 1/2" BSP, 3/4" BSP, M20x1.5

#### Mounting Holes

See attached drawing

#### Surface Finishing

Epoxy Coated

#### "O" Ring

Buna "N"

#### Weight





0.45Kg (1.0lbs)

#### Accessories

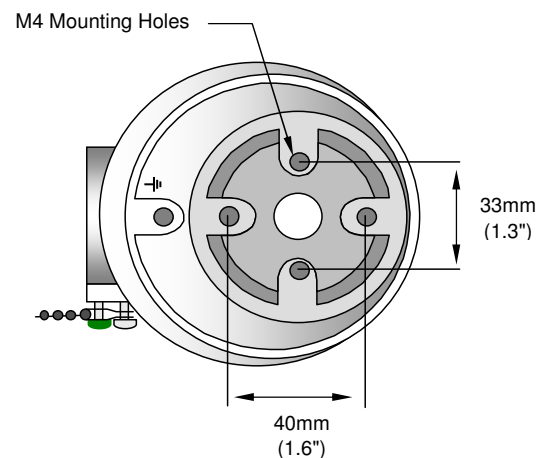
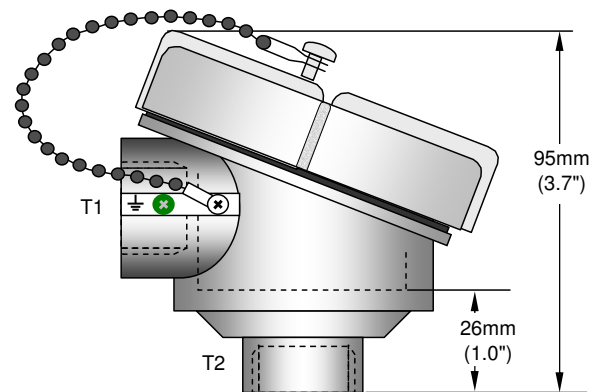
SS Ball Chain, Terminal Block (Ceramic/Bakelite, Optional)

Custom Designed name plate

#### Certification System

	<p>CLASS I, DIV I GROUPS B, C AND D CLASS II, DIV I GROUPS E, F AND G NEMA 4X</p>
	<p>CLASS I, DIV I GROUPS B, C AND D CLASS II, DIV I GROUPS E, F AND G NEMA 4X</p>
	<p>II 2GD, Ex d IIC Gb Ta=-45°C to 85°C Ex tB IIIC Db IP68</p>
	<p>Ex d IIC Gb, Ex tB IIIC Db IP68 Ta=-45°C to 85°C</p>

### Dimensions



## MODEL 1080 ALUMINUM EXPLOSION PROOF THERMOCOUPLE HEAD

IME Model 1080 Series Aluminum Thermocouple Heads are designed specifically for explosion proof applications and constructed out of Die-Cast Aluminum to withstand applications where aggressive atmospheres prevail.

This housing accommodates a terminal block or head mounted transmitter 50mm (2.0") in diameter that can be mounted using M4 screws as indicated in the attached drawing. Some units as indicated has a provision for a customer designed SS nameplate with information such as model number, company name, logo, and website etc.

### Ordering Information

Model	Description
1080AN	General Purpose, Aluminum Thermocouple Head with Provision for Name Plate, Silver Painted
1080AP	General Purpose, Aluminum Thermocouple Head with Provision for Name Plate, Silver Painted, with External Thread (See note 3)
1080AE	FM/CSA Ex-Proof Certified, NEMA 4, Aluminum Thermocouple Head, Silver Painted
1080AA	FM/CSA Ex-Proof Certified, NEMA 4, Aluminum Thermocouple Head with Provision for Name Plate, Silver Painted
1080AT	ATEX / IECEx Ex-Proof Certified, IP68, Aluminum Thermocouple Head with Provision for Name Plate, Silver Painted
1080AM	FM / CSA / ATEX / IECEx Ex-Proof Certified, NEMA 4, IP68, Aluminum Thermocouple Head with Provision for Name Plate, Silver Painted
1080WN	General Purpose, Aluminum Thermocouple Head with Provision for Name Plate, Epoxy Coated
1080WP	General Purpose, Aluminum Thermocouple Head with Provision for Name Plate, Epoxy Coated, with External Thread (See note 3)
1080WG	General Purpose, Aluminum Thermocouple Head with Tempered Glass Window, Epoxy Coated
1080WE	FM/CSA Ex-Proof Certified, NEMA 4X, Aluminum Thermocouple Head with Provision for Name Plate, Epoxy Coated
1080WW	FM/CSA Ex-Proof Certified, NEMA 4X, Aluminum Thermocouple Head with Provision for Name Plate, Epoxy Coated with External Thread (See note 3)
1080WT	ATEX / IECEx Ex-Proof Certified, IP68, Aluminum Thermocouple Head with Provision for Name Plate, Epoxy Coated
1080WM	FM / CSA / ATEX / IECEx Ex-Proof Certified, NEMA 4X, IP68, Aluminum Thermocouple Head with Provision for Name Plate, Epoxy Coated

Code	Conduit Size (T1)	Instrument Connection (T2)
01	T1=3/4" NPT	T2=1/2"NPT
02	T1=1/2" NPT	T2=1/2"NPT
04	T1=3/4" BSP (See Note 1)	T2=1/2"BSP (See Note 1)
05	T1=M20X1.5 (See Note 2)	T2=1/2"BSP (See Note 1)
08	T1=M20X1.5 (See Note 2)	T2=1/2"NPT
33	T1=3/4" NPT	T2=3/4" NPT
XX	Specify	Specify

1080WM	01	←	Typical Model Number
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### Note :

1. BSP Thread is Not Certified.
2. M20X1.5 is Not Certified By CSA
3. External Threads for Model 1080AP, 1080WP, 1080WW are all M30 x 1.5P