



## OVERVIEW

The Probe Mounting System works with reverse mount 5mm or 8mm proximity probes. The system mounts on the machine surface for easy installation.

The connection head is made of high-quality durable plastic and suitable for probe installations with operating temperatures of  $-40^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+230^{\circ}\text{F}$ ). For temperatures above  $+110^{\circ}\text{C}$  to  $+177^{\circ}\text{C}$  ( $+230^{\circ}\text{F}$  to  $+351^{\circ}\text{F}$ ), use the Aluminum Connection Head E = 1, 3 or 4 option or use the Metrix 5499 Probe Holder.

## FEATURES AND BENEFITS

- Easy mounting, dismounting and remounting
- Once-and-for-all probe gap adjustment using a plane machined surface or the Reference Face Adapter
- Reliably oil tight
- Generously dimensioned notch inside the Connection Head for winding up the cable excess length
- Cable outlet of the connection head can be fixed in any sideways direction
- Connection head is non-conductive and protects against ground fault
- Cables or conduits can be fixed with standard glands or fittings
- Rugged screw on caps protect the probes of probe holders dismantled for maintenance

## HAZARDOUS AREA RATINGS

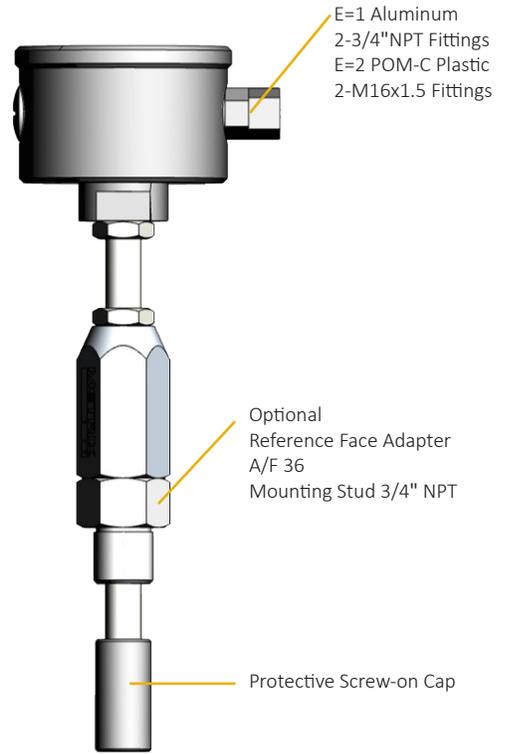
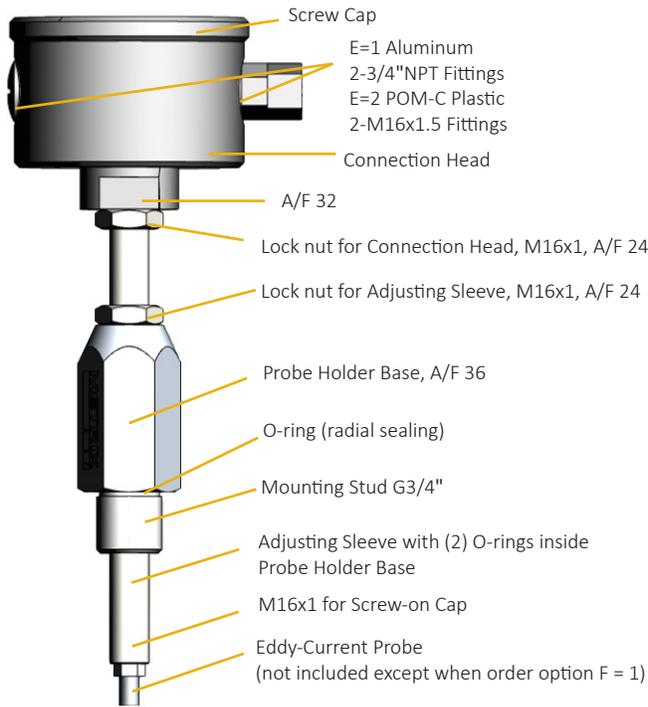
Class I Div I or Class I Div II   
 II 1G Ex ia IIC T4 Ga or  II 3G Ex nA IIC T4 Gc

When Used With MX8030/MX2030, MX8031/MX2031 Per Drawing #1086567 or other appropriately approved product.

“Warning” keep cover tight to prevent ignition of hazardous atmosphere, disconnect circuits before removing cover, seals are required within 6” (152mm) of enclosure on all conduits if used in a hazardous area.

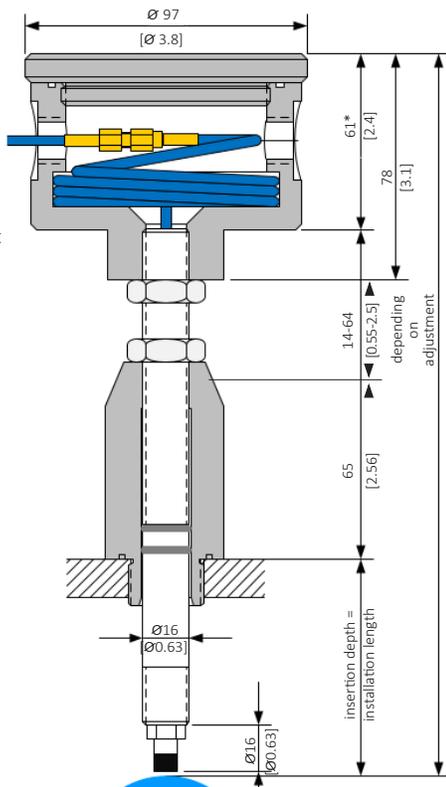


### PART DESCRIPTION

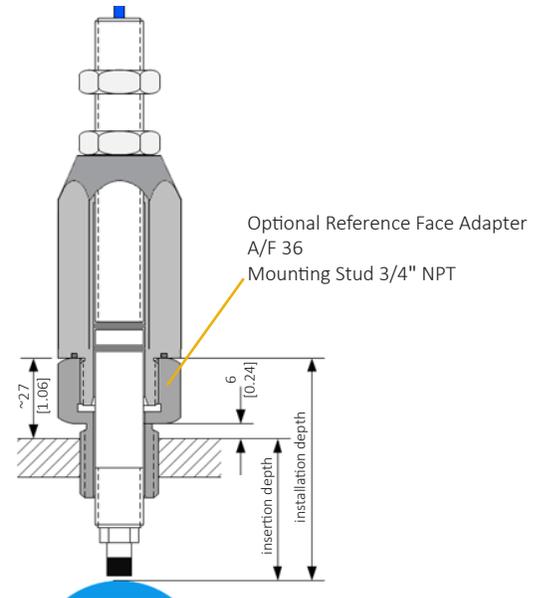


### DIMENSIONS AND INSTALLATION LENGTH

mm [in]



\*The aluminum connection head (Option E=1) has a height of 80mm (3.14")  
See dimensions on page 3.



## HOW TO ORDER

The Metrix Probe Mount consists of the Probe Holder Base with mounting stud, the Adjusting Sleeve (304ss, diameter = 16 mm (0.62")) with adjusting thread M16 x 1 mm, 2 lock nuts, protective screw-on cap, Connection Head and the optional Reference Face Adapter. Axial sealing is provided by two O-rings on the probe sleeve, and radial sealing by the O-ring underneath the Probe Holder Base.

Please specify the requirement of a Reference Face Adapter (B), the required Installation Length (CCC), the probe thread (D), choose the connection head (E), and probe if desired (F).

### 5497PM - A - B - C C C - D - E - F

A	Mounting Stud of Probe Holder Base
1	Probe Holder Base with G3/4" male (external thread) M16 - 1mm female (internal) 36mm wrench size
2	Probe Holder Base with 3/4" NPT male (external thread) M16 - 1mm female (internal) 36mm wrench size. No O-ring on the bottom of the base.

B	Reference Face Adapter
0	Not required, if a plane machined surface on the bearing housing is available as reference face for installation of the Probe Holder Base.
1	3/4" - 14 NPT male for casing, G3/4" female for Mounting Stud of Probe Holder Base

Note: Using the Reference Face Adapter increases insertion depth by ~27mm (~1.06"), include this depth in the Installation Length (CCC), see page 2 of this datasheet.

CCC	Installation Length (Note "B" Reference Face Adapter)
090	40mm-90mm (1.5"-3.5"), Standard
140	90mm-140mm (3.5"-5.5"), Standard
190	140mm-190mm (5.5"-7.5"), Standard
240	190mm-240mm (7.5"-9.5"), Standard
XXX	Contact factory for price and delivery of non-standard lengths. (>240mm (9.5"))

**Note:** CCC = Installation Length in mm (e.g. for 90mm: CCC=090; for 140mm: CCC=140. Minimum: 40mm (1.57"). The adjustable length is 50mm (2" +/- 0.2") of the CCC length.

Other sleeve lengths available upon special request. The maximum installation length without intermediate support is 290mm (11.5").

**Note:** If using B1, the Installation Length is 27mm (1.06") above the casing to shaft surface distance.

D	Reverse Mount Probe Thread
1	M10 x 1mm
2	3/8" - 24 UNF

E	Connection Head Type
1	Connection Head (Aluminum Housing + Screw on Cap + O-ring) - M16 x 1mm for the Probe Adjusting Sleeve - Two 3/4" NPT for cable conduit connectors  Height=97mm (3.8") Diameter=97mm (3.8")
2	Connection Head* (Durable Plastic Housing and Screw Cap + O-ring) with three (3) female threads: - M16 x 1mm for the Probe Adjusting Sleeve - Two (2) female threads M16 x 1.5mm for cable conduit connectors  Height=78mm (3.1") Diameter=97mm (3.8")
3	Same as "1" but with internal ground screw
4	Same as "1" except Housing and Screw on Cap are stainless steel with internal ground screw

F	Reverse Mount Probe
	Blank = None

1	Matching MX8030 Reverse Mount Probe (Option D) included (M10x1mm or 3/8-24 UNF), 8mm tip, 0.5 meter w/agency approvals
---	--

\*Note: The connection head is made of high-quality durable plastic and suitable for probe installations with operating temperatures of -40°C to +110°C (-40°F to +230°F). For temperatures above +110°C to +177°C (+230°F to +351°F), use the E = 1, 3 or 4 option or the Metrix 5499 Probe Holder.

Aluminum Connection Head Dimensions

