

7 Accessories

7.1 Overview

| | |
|-----------------------------|-----------------------------------|
| Fixed Mounting Bracket | XXXCIACFB |
| Adjustable Mounting Bracket | XXXCIADJB |
| Air Purge Collar | XXXCMACAP metrical: XXXCMACAPM |
| Right Angle Mirror | XXXCMACRA metrical: XXXCMACRAM |
| Protective Window | XXXCMACPW metrical: XXXCMACPWM |

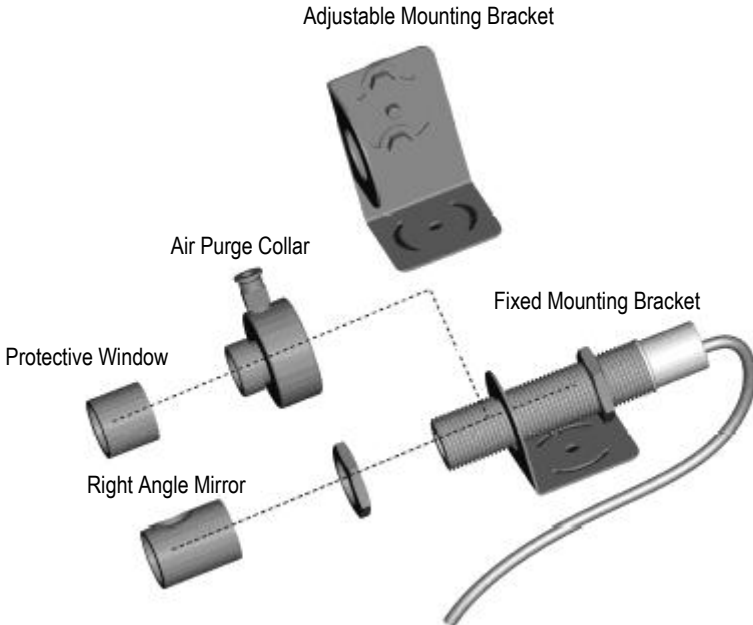


Figure 6: Overview of available accessories

7.2 Fixed Mounting Bracket

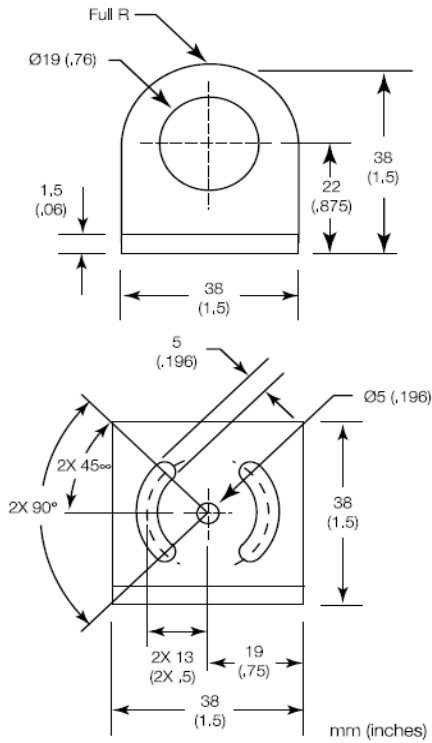


Figure 7: Dimensions of Fixed Mounting Bracket

7.3 Adjustable Mounting Bracket

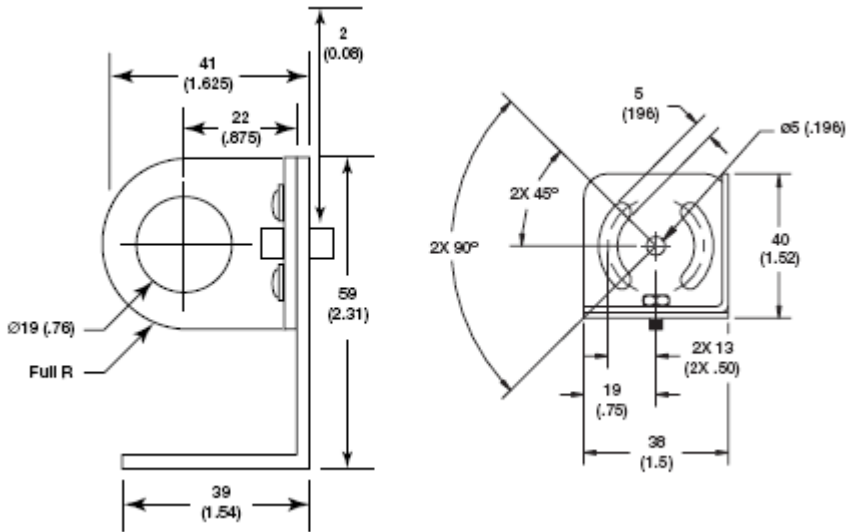


Figure 8: Dimensions of Adjustable Mounting Bracket

7.4 Air Purge Collar

The Air Purge Collar is used to keep dust, moisture, airborne particles, and vapors away from the lens. It can be mounted before or after the bracket. It has the push-in fitting. A 4 mm (0.16 in) outside diameter plastic tubing is recommended to connect the fitting. Air flows into the fitting and out the front aperture. The pressure of air should be 0.6 to 1 bar (8.7 to 15 PSI). Clean, oil free air is recommended.

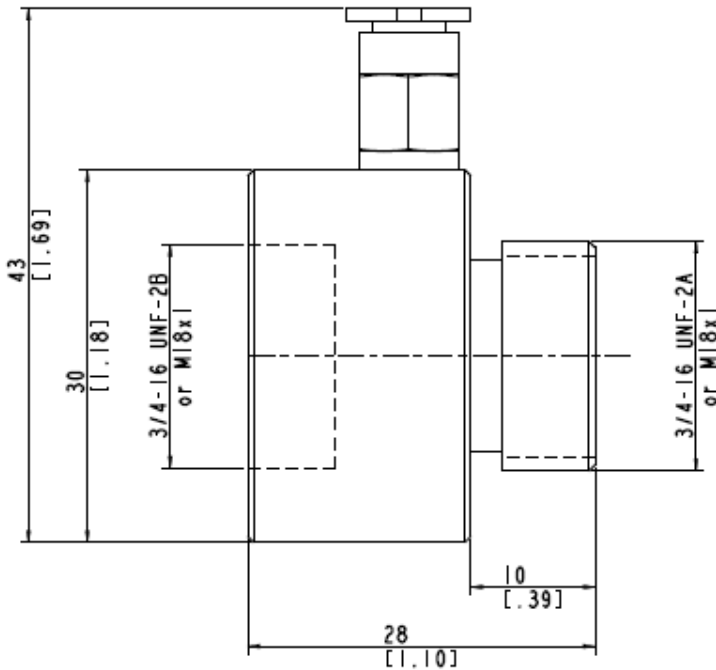


Figure 9: Dimensions of Air Purge Collar

7.5 Right Angle Mirror

The Right Angle Mirror is used to turn the field of view by 90° against the sensor axis. It is recommended when space limitations or excessive radiation do not allow for direct alignment of the sensor to the target. The mirror must be installed after the bracket and after the Air Purge Collar and screwed in fully. In dusty or contaminated environments, air purging is required to keep the mirror surface clean.

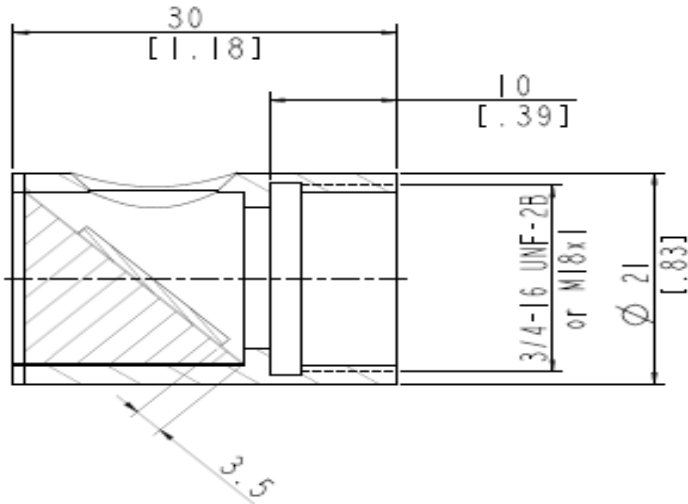


Figure 10: Dimension of Right Angle Mirror



When using the Right Angle Mirror, adjust the emissivity or transmissivity settings downward by 5%. For example, for an object with an emissivity of 0.65, you adjust the value down to 0.62. Or, you can keep the emissivity 0.65 and adjust the transmissivity from 1.0 to 0.95. This correction accounts for energy losses in the mirror.

7.6 Protective Window

The protective window comes with Silicon as window material.

Determination of transmissivity of an unknown protective window:

If transmissivity of the measuring screen is not indicated on the data sheet, you can also determine the transmissivity yourself. Please proceed as follows:

1. Measure the temperature of the target object with the sensing head, without using the protective window. Note correct setting of emissivity.
2. Insert the protective window in the sensing head.
3. Adjust the transmissivity in the software until the same temperature is displayed, as it was determined without the protective window.