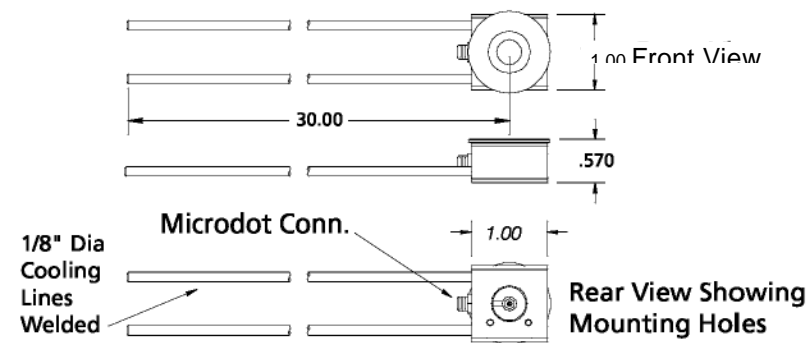


Sensors

Standard Single Crystal Sensor Head



The 932-000 is our most popular Sensor Head. The 1/8" water lines can be slipped inside the 3/16" lines of the feedthrough, and either welded or brazed. The Water lines and Sensor Body,s are made of 304 Stainless.

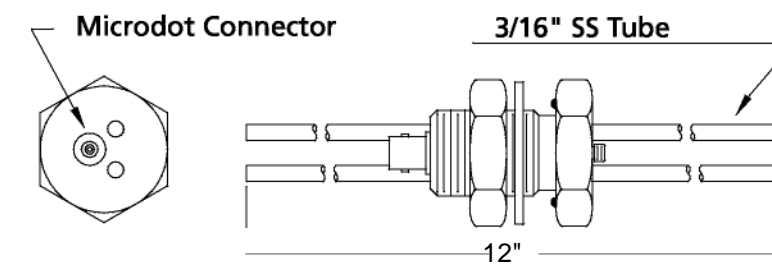
Maximum Bakeout temperature of 175C

Sizes & Part Numbers

- 932-000
Std Single Sensor,
1/8" Cooling Lines
- 932-005
Std Single Sensor,
3/16" Cooling Lines
- 932-006
Std Single Sensor,
1/4" Cooling Lines

Feedthroughs

1" Bolt Feedthroughs



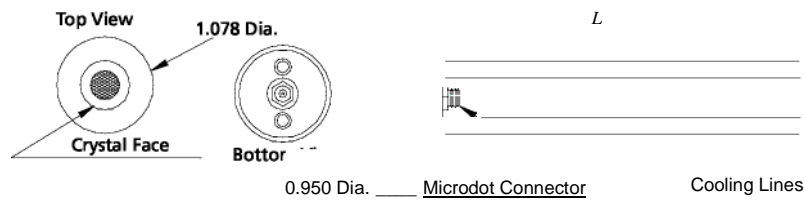
A 1" bolt feedthrough is an inexpensive way to make both electrical and fluid connections to you vacuum system. Do not use for UHV applications.

Notes: 1 Electrical, 2 Fluid Lines; No Solder or Braze

Sizes & Part Numbers

- 930-000: 1" Bolt with
1 Electrical, two 3/16" Fluid Lines
- 930-006: 1" Bolt with
1 Electrical, two 3/16" Fluid Lines,
1/8" Compression Fittings
- 930-007: 1" Bolt with 1 Electrical,
three 3/16" Fluid Lines
- 930-001: 1" Bolt with 2 Electrical,
three 3/16" Fluid Lines
- 930-008: 1" Bolt with 1 Electrical,
three 3/16" Fluid Lines, 1/8"
Compression Fittings

Right Angle Single Crystal Sensor Head



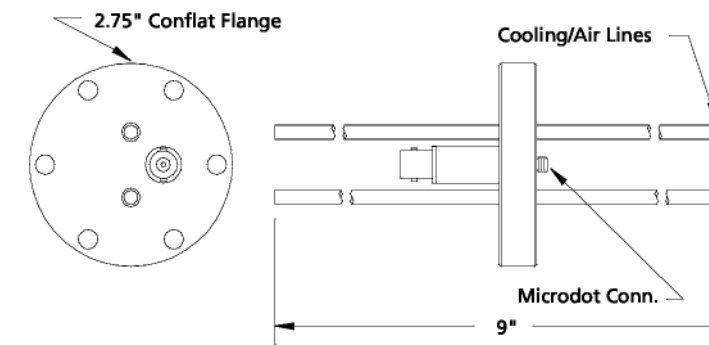
The cooling tubes of the Right Angle Sensor Head exit from the rear of the sensor. This can be useful in some limited room applications. The electrical Microdot connector also exits from the rear of the sensor.

Maximum Bakeout temperature of 175C

Sizes & Part Numbers

- 932-003
Right Angle Single Sensor, 1/8"
Cooling Lines
- 932-008
Right Angle Single Sensor, 1/8"
Cooling Lines

2-3/4" Conflat™ Feedthroughs

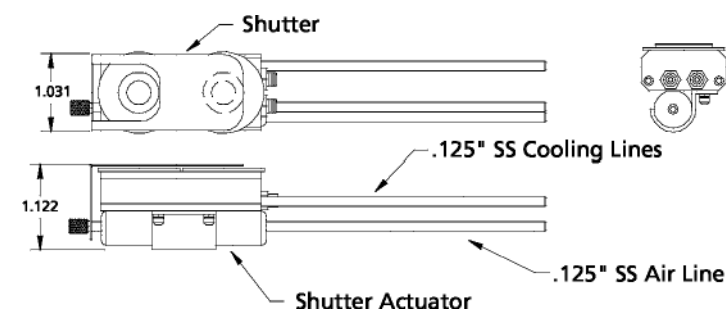


A 2-3/4" Conflat™ type feedthrough will allow more room to insert the sensor, and allow UHV operation. If your needs are not met by a standard product, call an applications engineer at Sigma Instruments for more options.

Sizes & Part Numbers

- 930-002: 2-3/4" CF with 1
Electrical, two 3/16" Fluid
Lines
- 930-004: 2-3/4" CF with 1
Electrical, two 1/8"
Compression Fittings
- 930-005: 2-3/4" CF with
1 Electrical, three 3/16"
Fluid Lines
- 930-003: 2-3/4" CF with
2 Electrical, three 3/16"
Fluid Lines

Dual Crystal Sensor, Pneumatic Shutter

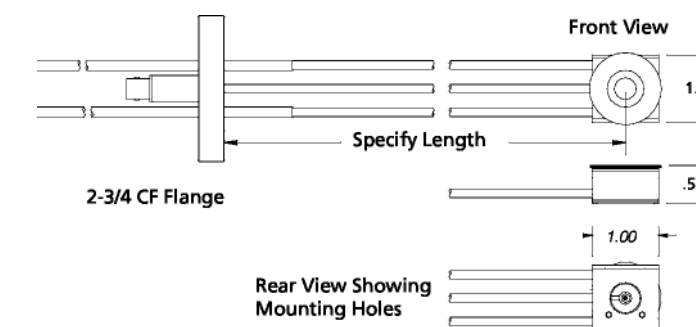


The dual sensor head is used in applications where if one crystal fails, the shutter can be activated to allow the second crystal to take over. The simple design of the Shutter and Actuator results in trouble free operation. This is also available in a Single Sensor Shuttered version. Bakeout temperature of 175C max. Actuator operating temperature of 100C max.

Sizes & Part Numbers

- 932-001
Dual Crystal Sensor, Pneumatic
Shutter, 1/8" Cooling Lines
- 932-010
Dual Crystal Sensor, Pneumatic
Shutter, 3/16" Cooling Lines
- 943-016
Single Crystal Sensor, Pneumatic
Shutter, 1/8"
Cooling Lines

Combination Sensor/Flange UHVAssemblies

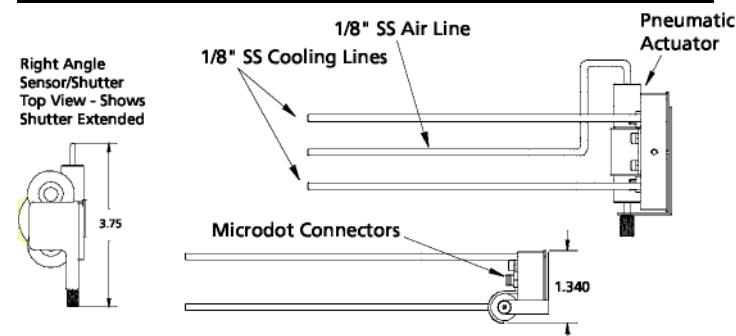


We offer a variety of sensors welded to the feedthrough that eliminates the In-Vac cable required for Standard Sensor Heads. This allows the Bakeout temperature to be raised to 275C, although the actuator on shuttered heads is still limited to 100C max. The length of the sensor head to the feedthrough must be specified, along with any bends in the lines that you may require.

Sizes & Part Numbers

- 932-012
Single Bakable Sensor/Flange
Combo
- 932-013
Single Bakable Sensor/Flange
Combo with Pneumatic Shutter
- 932-014
Single Right Angle Bakable
Sensor/Flange Combo

Right Angle Dual Crystal Sensor with Pneumatic Shutter



For applications requiring a different profile than our standard dual sensor, we offer the Right Angle Shuttered Dual Sensor. The Cooling lines and Microdot connectors exit from the rear of the sensor body. Bakeout temperature of 175C max. Actuator operating temperature of 100C max.

Sizes & Part Numbers

- 932-002
Right Angle Dual Crystal Sensor,
1/8" Cooling Lines
- 932-011
Right Angle Dual Crystal Sensor,
3/16" Cooling Lines

ceramisis

Custom & Replacement Parts

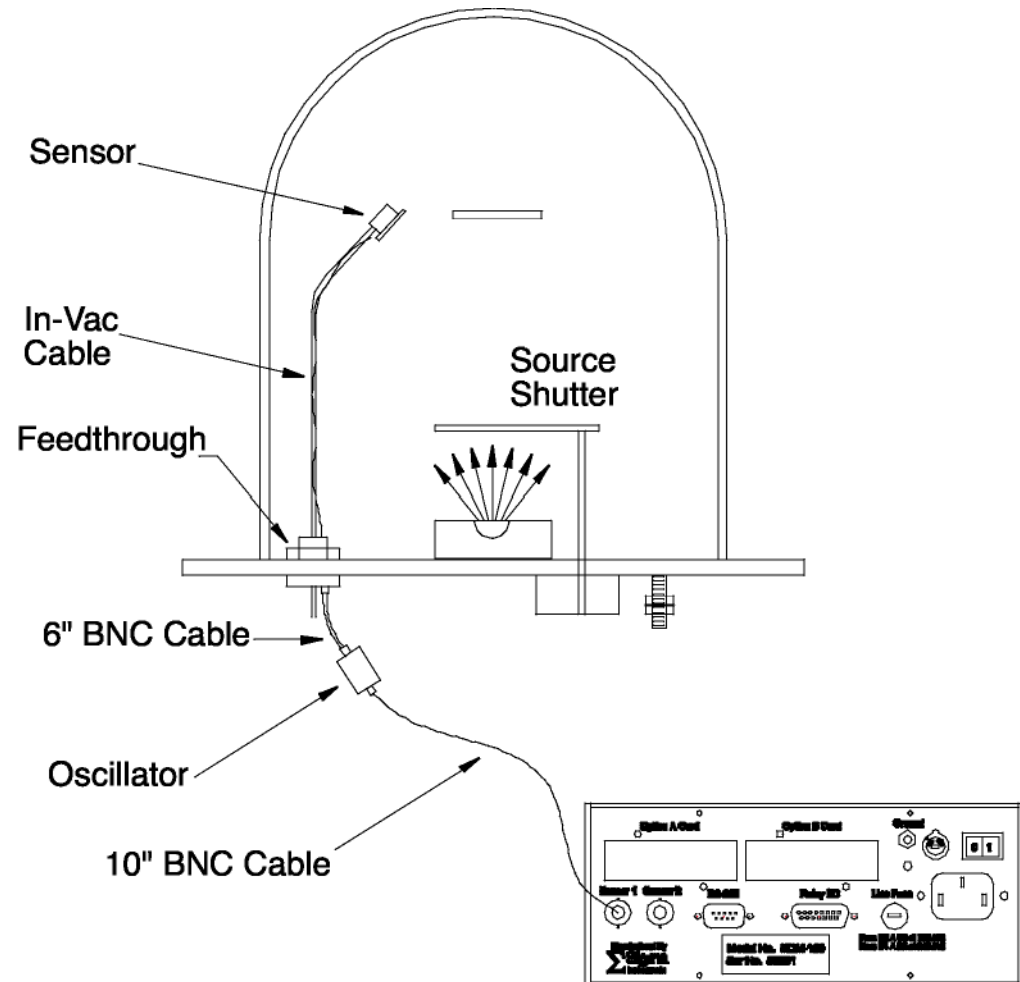
- .5", 1.25" Bolt
- Multi-Sensor Feedthroughs
- NW-40 Flange

- Welded, brazed, compression
- Octal Electrical
- UHV
- Flex Tubing

We offer a complete line of feedthroughs, sensors, and cables to satisfy most applications. Our low cost replacement parts are reliable and very competitively priced. Or we can fabricate feedthroughs, sensors, and cables to your exact specifications.

Contact a Sigma application engineer with your requirements.

Accessories



Oscillators

900-010
Remote Oscillator

932-015
In Vacuum Oscillator
provides long sensor life
in adverse applications

Cables

902-014
30" In Vacuum Cable
Microdot each end

902-013
In Vacuum Cable
Custom Length

902-011
6" M/F BNC Cable
Connects feedthrough to
oscillator module

902-012
10" M/M BNC Cable
Connects oscillator to
Monitor/controller.

Crystals (10 pak)

934-000 Gold
934-001 Silver
934-002 Alloy

Gold crystals are suitable for most applications. Alloy may be more effective in dielectric applications.



Thin Film:

Sensors Feedthroughs Accessories

ceramisis