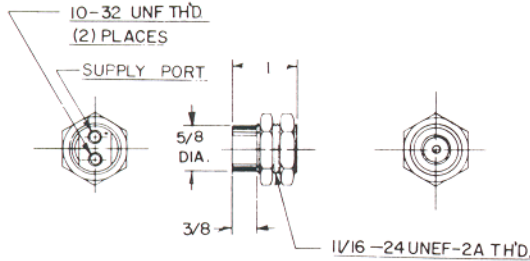
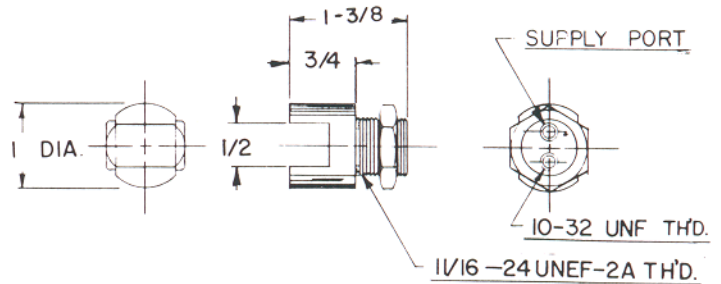


The Model 59620 Proximity Sensor is a compact proximity sensor which will effectively sense objects passing within 3/16" of its face. The sensor is 11/16" in diameter and is threaded full length to facilitate mounting.



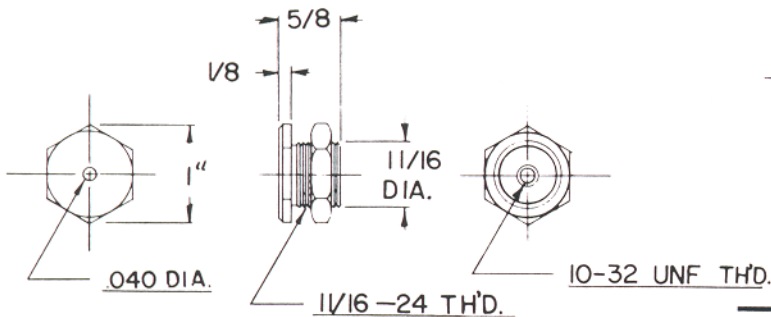
MODEL 59620 PROXIMITY SENSOR

The Model 59621 Interruptable Gap Sensor is a gap sensor with a constant purge on the receiver to prevent possible contamination. Any object passing through the gap will interrupt the sensor output.



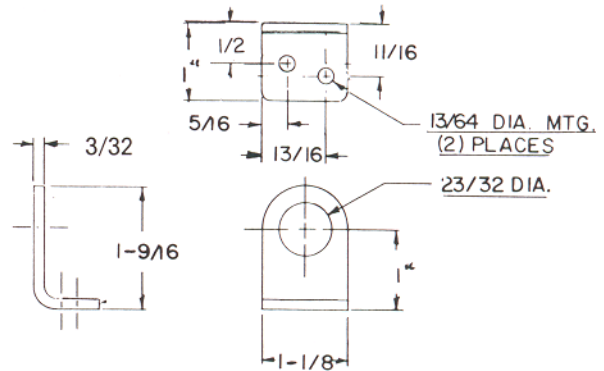
MODEL 59621 INTERRUPTABLE GAP SENSOR

The Model 59622 Emitter is a special jet generator. It is used in conjunction with the Model 59621 Interruptable Gap sensor to sense across gaps larger than the gap of the sensors themselves. The emitter emits a stream of air which is strong enough to maintain the standard gap sensor in an interrupted condition. When the sensed object passes between the emitter and its associated gap sensor, the interrupt signal is deflected. This allows the gap sensor to generate an output signal indicating the presence of an object.



MODEL 59622 EMITTER

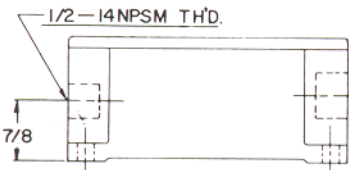
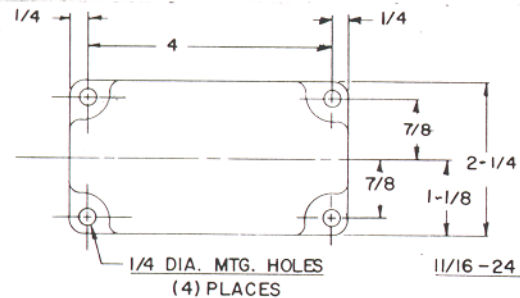
Model 59623 Angle Bracket mounts with two No. 10 screws and supports the sensor with the sensor centerline one inch away from the parallel to the mounting surface.



MODEL 59623 ANGLE BRACKET

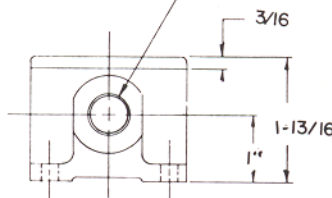
FITTINGS AND TUBING FOR PNEUMATIC SENSORS

- 59906 Tube Connector for 1/8" I.D. vinyl tubing (pkg. of 10).
- 59905 Tube Connector for 1/16" I.D. vinyl tubing (pkg. of 10).
- 59629 Connector; 1/8" pipe to 10-32 fitting th'd (pkg. of 5).
- 59630 Vinyl Tubing; 1/16" I.D. (100' spool).
- 59631 Vinyl Tubing; 1/8" I.D. (100' spool).



MODEL 59619 ACCESSORY BOX

Model 59619 Accessory Box is an oil tight mounting box which is tapped to accept a jet type sensor at one end and a standard 1/2" conduit fitting at the other end. Provision is made within the box for mounting model 59807 amplifier (supplied with 59619) to provide signal amplification and buffering. The box has provisions for mounting and maintains the sensor centerline one inch away from and parallel to the mounting surface.



PNEUMATIC INTERFACE AMPLIFIER MODEL 59807

DESCRIPTION

The 59807 is designed to control a high pressure supply with minimum signal pressure. The 59807 is a low-pressure actuated amplifier that is intended primarily for applications involving sensitive signal detection requirements. It will actuate at signal pressures between 1 and 4 inches of water.

The 59807 is made mostly of molded A.B.S. The diaphragm is made of Buna-N with a stainless steel return spring. The inlet orifice is brass and is protected with an internal felt filter. Each DIAPHRAGM AMPLIFIER is furnished with 3 connectors for 1/16" I.D. flexing tubing.

OPERATION

The ARO DIAPHRAGM AMPLIFIER is basically a diaphragm actuated touch sensor. Supply air from 0 to 125 psig is applied to the "IN" port on the mounting side of the device. This supply is filtered by an internal felt filter before being passed through a .014" diameter metering orifice. The metering orifice serves to hold air consumption to reasonable levels and insures a zero output when unactuated.

Immediately after the metering orifice, the supply passes through a silencer, past the output passage, and through the Nozzle to atmosphere. When an actuation signal is applied to the top of the Buna-N diaphragm, it causes the diaphragm rivet to block the Nozzle.

This closes the vent to atmosphere in the supply side causing the pressure to rise at the output port, yielding an amplified output signal.

When the actuation is removed, the diaphragm is returned to rest position. This vents the output and removes the output signal.

SPECIFICATIONS

Minimum Supply Pressure:	0 psig
Maximum Supply Pressure:	125 psig
*Typical Actuation Pressure:	3" H ₂ O
Typical Frequency Response:	25 Hertz
Max. Allowable Signal Pressure:	5 psig
Min. Operating Temperature:	35°F.
Max. Operating Temperature:	150°F.
Equivalent Orifice:	0.014
Recommended Filtration:	5 micron

* 59807 will remain unactuated with signal pressure below 1" H₂O and will be actuated by signals above 4" H₂O (@ 5 p.s.i. supply)

