

## Explosion Pressure Detector

### Explosion Protection System Components

#### Advantages:

- Field adjustable design provides custom pressure settings from 0.25 psig to 5.0 psig.
- Factory Mutual-approved device detects explosions in a variety of Class I and II hazardous locations.
- Construction provides reliable moisture and explosion-proof performance.
- Detector standoff mounting kit protects against accidental system actuation caused by process vibration.
- Stainless steel diaphragm ensures corrosion resistance.



### Application

The IEP Technologies static explosion pressure detector provides millisecond response to the pressure rise which occurs in the brief moment before an explosion. Used in conjunction with IEP Technologies' range of control panels and suppressors, it provides a proven means of detection for a wide range of applications. Typical applications include explosion protection of dust collectors, mills, bins, shredders, dryers and other process equipment handling explosive dusts or vapors.

### Description

The IEP Technologies Static Explosion Pressure Detector is a low inertia detector incorporating a highly sensitive stainless steel diaphragm. The diaphragm is mounted onto a 6-inch diameter eight (8) hole nickel plated steel mounting flange. The flange is bolted to a cast aluminum housing protected by epoxy paint. The screw cover to the housing has an O-ring seal to protect the field adjustable switch assembly housed within. As standard, the pressure detector comes with a 24-inch long braided cable assembly. A standoff mounting kit is also available. The mounting kit consists of a stainless steel standoff pipe, a detector mounting bracket, a hose assembly, hose clamps, gaskets, and an adaptor plate.

### Specifications

**Text Construction:** Epoxy painted cast aluminum housing and cover incorporating a stainless steel diaphragm.

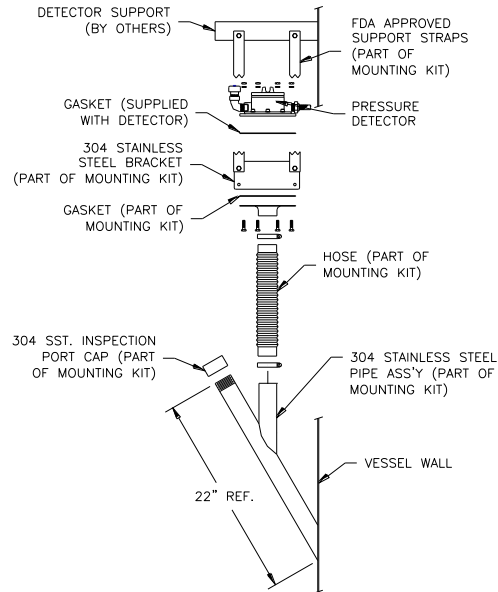
**Switch:** Moisture-resistant switch assembly having normally open contacts suitable for IEP Technologies' range of control units.

**Mounting:** Flush stud mounting to outside of vessel wall or with standoff pipe assembly included with mounting kit.

**Approximate Weight:** Detector - 3 lbs., mounting kit - 10 lbs.

**Approvals:** Factory Mutual (FM) Approved

## Typical Mounting Arrangement



## Ordering Information

Pressure Detector	
Part Number	Description
32-090018-003	Static Pressure Detector with nickel plated carbon steel flange. Suitable for use with IEP Technologies two-zone control panels.
32-090018-012	Static Pressure Detector with stainless steel flange. Suitable for use with IEP Technologies two-zone control panels.
32-090018-014	Static Pressure Detector with nickel plated carbon steel flange. Suitable for use with IEP Technologies single-zone control panels.
32-090018-016	Static Pressure Detector with stainless steel flange. Suitable for use with IEP Technologies single-zone control panels.

Detector Standoff Mounting Kit		
Part Number	Hose Construction	Length (inches)
32-193017-005	Flexible Rubber BUNA-N	12
32-193017-006	Flexible Rubber BUNA-N	24
32-193017-009	Flexible Silicone/Fiberglass Rubber	12
32-193017-010	Flexible Silicone/Fiberglass Rubber	24