Catalog # 77-1009B

BS&B®
SAFETY SYSTEMS

The MBS Detec-Saf Alarm System ™

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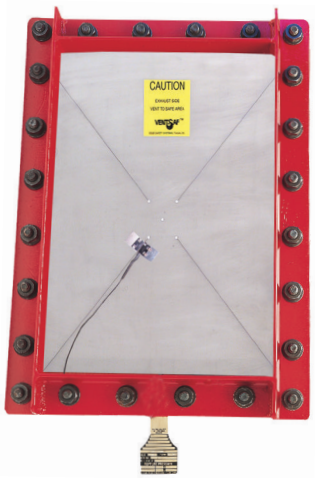
MBS Magnetic Burst Sensor

The MBS (magnetic burst sensor) is designed to provide immediate indication in the event of a ruptured disk or explosion vent. The MBS is a magnetically activated sensor, spot welded to the vent or disk. Warning of a ruptured disk or vent and its location are given by the MBS when the current flowing through is disrupted, activating the BDM (burst disk monitor).



Features

- Provides continuous monitoring of rupture disk, explosion vent integrity
- Has no affect on the burst performance or service life of the explosion vent or rupture disk
- Available for use with most standard catalog burst pressures and materials of disk and vents
- Functional over a wide range of operating temperatures
- Both components of the MBS are attached to carrier plates and spot welded to opposing segments of the flat vent or disk
- Corrosion resistant to chemicals, dusts and weather
- Detec-Saf alarm system consists of a sensor in combination with a BDM
- The entire MBS assembly is factory installed. MBS for domed Vent-Saf-Plus and EXP/DV requires frame side installation in field
- May be retrofit in field

Availability

The MBS is available for the following disk types:
- Vent-Saf explosion vents: all sizes
- Type AV rupture disks* 8-36 inches (200-900mm)

For other applications, consult BS&B.
**For other sizes, use type BDS burst disk sensor*

Operating Temperature

The MBS is functional over a wide range of operating temperatures:

Minimum: -40°F (-40°C)
Maximum: 149°F (65°C)

Components

The MBS unit consists of two components attached to carrier plates and spot welded to opposing segments to the flat vent or disk. Plastic encapsulation of the sensor components ensures complete protection from environmental conditions.

The MBS unit is supplied with three feet of twin core PVC insulated and sheathed cable; also available with flexible 302 stainless steel armored lead (armored length is three feet).

Electrical Specification

Meets the requirement of the IEC 1441P67 which ensures complete protection against dust and water.
- Maximum ratings: 24VDC-300mA
  110 VAC-60mA
- Maximum peak voltage permissible: 200VAC for nonhazardous / non-critical conditions only; Suitable for intrinsically safe power levels - max 5V-20mA

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