



The FS 10000 indicates dry material flow with no moving parts.

FEATURES

- Solid state, no moving parts
- Simple installation & calibration
- NEMA 4X enclosure for electronics
- Explosion proof housing for probe
- On-board fuse
- Power spike suppression
- Field adjustable time delay

APPLICATIONS

- Broken bag alarm
- Pneumatic conveying flow/no flow
- Plugged chute detection

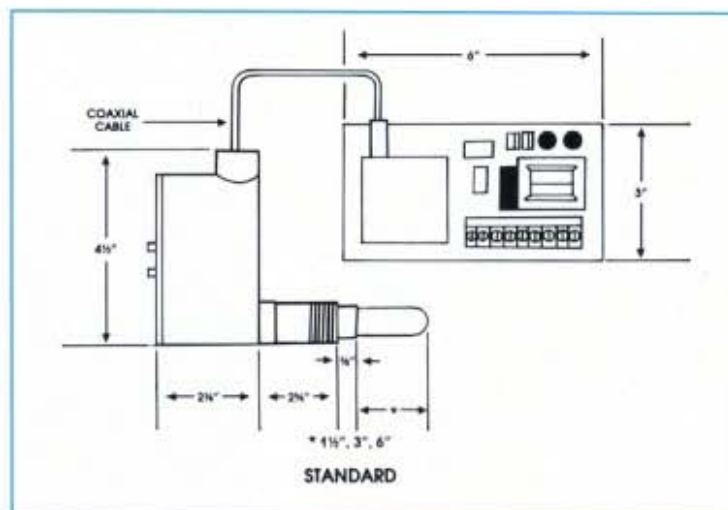
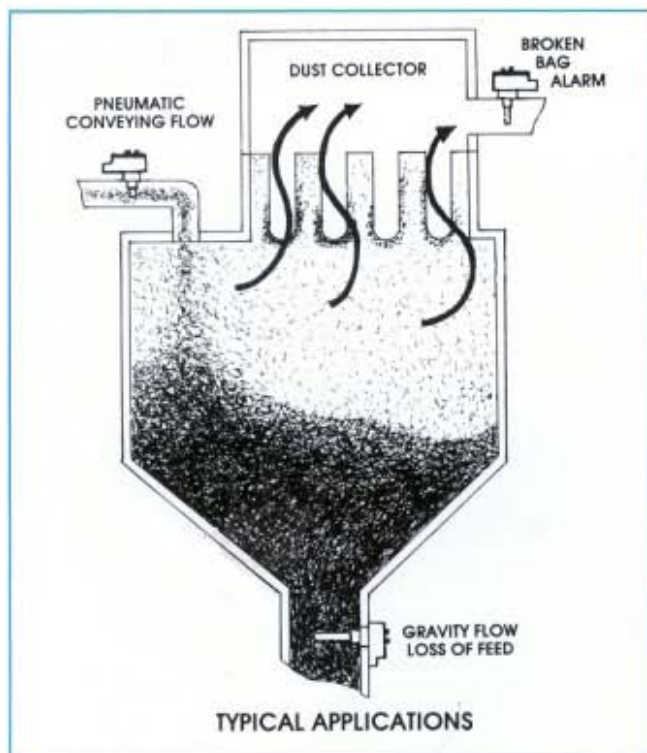
GENERAL OPERATIONS The FS 10000 is designed to sense the **flow** of dust, granular, or powdered materials, in a pneumatic conveying line or chute. This flow switch is especially suited to detect the flow of dust resulting from a ruptured filter bag in a bag house or dust collector.

When particles collide with the sensing probe, an electrical charge is transferred to the probe and sensed by the FS 10000's proprietary circuit. Output is via an on-board relay, that may be used to sound an alarm or perform other control functions.

SIMPLE CALIBRATION All necessary calibration indicators are at the remote mounted electronics, so all you need to calibrate the FS 10000 is a small screwdriver.

Each unit has a field adjustable time delay circuit that may be used to ignore nuisance indications or intermittent gaps in product feed.

COMPLETE SYSTEM The FS 10000 comes complete with the electronic circuit board mounted in a NEMA 4X enclosure, 15 feet of coaxial cable and connectors, and a 316 stainless steel probe mounted in an explosion proof housing.



SPECIFICATIONS

ELECTRICAL

Power: 115 VAC ($\pm 15\%$) 50/60 Hz
(24 VDC Optional)

Output: 2 Form C Contacts, DPDT Relay,
5 Amp Resistive @ 125, 250 VAC;
30VDC

Time Delay: Select: ON or OFF Delay
Adjust: 1/8 Sec.-2 Hrs.

Fuse: On-board 1/2 Amp

MECHANICAL

Process Entry: 3/4" NPT

Conduit Entry: 3/4" NPT

Probe: 1/2" Diameter, 316 Stainless Steel,
1 1/2" or 3" or 6" length
standard

Insulator: Teflon

Enclosure: Probe: Copper free cast aluminum
Electronics: Non-metallic
10" x 8" x 5" with clear
acrylic window

ENVIRONMENTAL

Temp. Electronics: -30° to 170°F

Temp. Probe: -30°F to 200°F Standard
(400°F Optional)

Pressure: 85 PSI

Housing Probe: Class I, Grp. C&D, Class II,
Grp. E, F, G, Class III

Enclosure Elec: NEMA 4X-12-13

Specifications subject to change without notice.

ORDERING INFORMATION

Model FS 10000-115VAC-S-3

Supply Voltage 115VAC

"S" — 316 Stainless steel probe

Probe length in inches 3"

This describes a FS 10000 flow switch, complete with electronics mounted in the NEMA 4X enclosure, 15 feet of coaxial cable, and 3" stainless steel sensing probe with explosion proof housing.

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