Velociti® Series
ABD-2F and ABD-RT2F

Description

The Gamewell-FCI Velociti® Series, ABD-2F and addressable projected beam smoke sensor is uniquely suited to sense smoke in hostile environments or open areas with high ceilings where spot-type sensors are unsuitable or difficult to install and maintain. It is intended for use in the signaling line circuits with the following sub-assemblies.

- E3 Series®, ILI-MB-E3 and ILI-S-E3 (Velociti mode only)
- S3 Series, SLC-PM (Signaling Line Circuit-Personality Module)

The ABD-2F consists of a combination transmitter/receiver unit and a reflector. When smoke enters the path between the unit and the reflector, it causes a reduction in the signal, and when the smoke level reaches the predetermined threshold, an alarm results.

A unique single-ended reflective design offers simpler installation than the traditional transmitter and receiver types of beam sensors. Alignment is swiftly accomplished via an optical sight and a 2-digit signal strength meter integral with the product. Listed for operation from –22° F to 131° F, the ABD-2F can be installed in garages, warehouses and other hostile environments where temperature extremes exceed the capability of spot-type sensors.

The Velociti® Series uses a communication protocol that substantially increases the speed of communication between the sensors and Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group changes status, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

The unit has four standard sensitivity selections along with two Acclimate settings. When either of the two Acclimate settings are selected, the sensor will automatically adjust its sensitivity using the advanced software algorithms to select the optimum sensitivity for the specific environment.

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Single-Ended Reflected Type
Beam Smoke Sensor



ABD-2F/RT2F

Features

- Includes a single-ended, reflective design.
- Has six user-selectable sensitivity levels.
- Spans a 16 to 328 foot (4.9 to 99.9 m) detection range.
- Compatible with the E3 Series® ILI-MB-E3 and ILI-S-E3 or the S3 Series, SLC-PM.
- Contains an integral sensitivity test feature (ABD-2SF).
- Designed with a digital display - no special tools required.
- Provides a user-friendly alignment procedure.
- Offers an integral automatic gain control that compensates for signal deterioration from dust build-up.
- Available with an optional Remote test station.

SIGNALING

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MEA Approved FDNY

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GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

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Description (continued)

The ABD-RT2F is equipped with an integral sensitivity test feature consisting of a test filter attached to a servo motor inside the sensor optics. The ABD-RT2F requires an additional, external power supply. Using the remote test station Model RTS151, the motor moves the filter in the path of the light beam, thereby serving as an accurate test of the receiver sensitivity. This test feature allows the user to quickly and easily meet the annual maintenance and test requirements of NFPA 72.

Specifications

Operating Temperature Range:	-22° F to 131° F (-30° C to 55° C)
Operating Humidity Range:	10% to 93 RH non-condensing
Dimensions:	
Detector:	10" H x 7.5" W x 3.3" D (25.4 H x 19 W x 8.4 D cm)
Reflector:	16-230 ft. (4.9 x 70.1 m) 7.9" H x 9.1" W (20 H x 23 W cm)
Voltage Range:	15 to 32 VDC
Alarm Current:	8.5 mA max.
Standby Current:	2 mA max. avg. @ 24 VDC

Ordering Information

Part Number	Description
B210LP	Flanged mounting base.
Dimensions:	6.1" (15.5 cm) diameter.
B210LPBP	Flanged mounting base bulk pack.
Dimensions:	6.1 (15.5 cm) diameter.
ABD-RT2F	Single-ended smoke sensor with integral sensitivity test.
BEAMLRK	Long range accessory kit (required for applications with a range over 230 ft. (70m).
BEAMMMK	Multi-mount kit (provides ceiling or wall mount capability with increased angular adjustment).
BEAMSMK	Surface mount kit.
RTS151	Remote test station.
RTS151KEY	Remote test station with key lock.