

BB-200 Microwave Motion Sensor

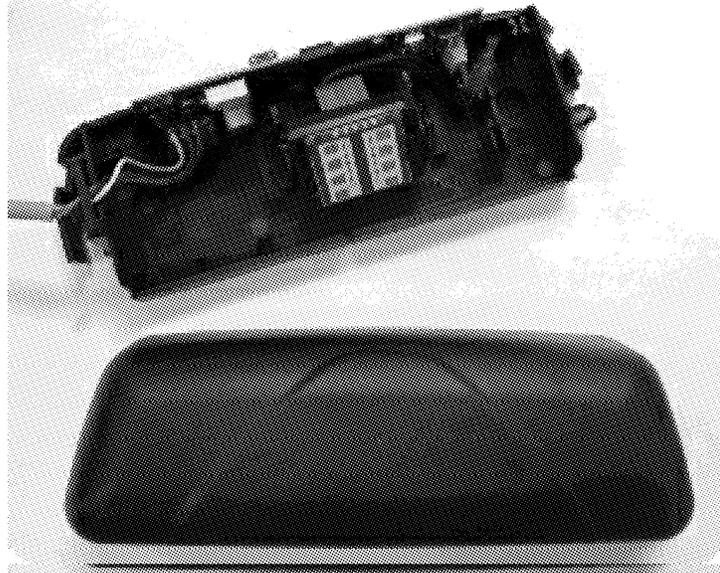
*Senses People Up to
16 Feet Away*

Adjustable Range

FCC Approved

*Reliable Microwave
Technology*

*May Be Concealed
Behind Exhibit*



BB-200 Motion Sensor Top: Cover Removed

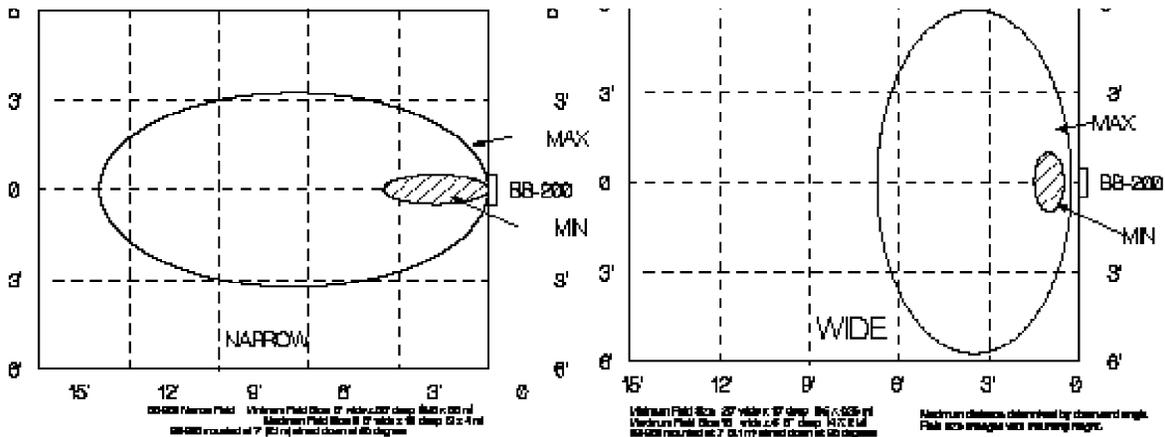
Based on the Doppler Principle, the BB-200 provides a compact and reliable method of detecting when a visitor approaches an exhibit. Unlike passive infra-red detectors used in burglar alarms and driveway lights, the low power radar beam may be aimed to cover a specific area. Also, the range, or sensitivity, is easily adjusted over a range of approximately 3 to 16 feet. In this way, the exhibit is started only when a person is within the appropriate range.

The BB-200 operates from any power source capable of providing 12 to 24 volts AC or DC at 100 milliamps. Any of the Museum Technology products employing the RJ-11 modular plug system is able to directly supply the required power.

In general, the BB-200 should be mounted above, and aimed at, the area to be covered. A light visible on the BB-200 assists in aiming and adjustment. It is suggested that the BB-200 be powered up, and temporarily mounted in the proposed location to ensure proper operation prior to permanent mounting.

The BB-200 may be mounted behind common non-metallic building materials such as plywood, MDF, and drywall. This might result in a slight reduction in maximum range. Again, the BB-200 should be temporarily installed and tested prior to final mounting.

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DIMENSIONS ARE APPROXIMATE AND TO BE USED AS A GENERAL GUIDE ONLY
BB-200 BEAM PATTERNS

Technical Specifications

Operating Principle: Microwave Doppler Radar

Frequency: K-Band, 24.125 GHz

Range: Approximately 3 to 16 feet; Adjustable by mounting angle and sensitivity control.
Wide or narrow beam determined by orientation of antenna

Output: SPST solid state (silent) relay provides for normally normally open operation.
Contacts rated 1 amp at 24 VDC

Power: 12 to 24 volts DC or 10 to 24 volts AC
100 mA relay OFF, 120 mA relay ON

Environmental: -4 to 140 Degree F (-20 to +60 C)

Indicator: Green LEDlights while motion sensed

Size: 6.8" wide x 2.4" high x 1.9" deep (172 x 60 x 48 mm); 5 Oz (140 g)

Mounting: Screw holes for mounting to flat surface

Weight: 9 ounces (240 grams)

Adjustments: Range adjustable 3 to 16 feet (1 to 5 meters)
Microwave Horn pivots -20 to +20 degrees; -5 to 90 degrees from horizontal

Approval: FCC

Warranty: Two years parts and labor

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