

## BB-200 Microwave Motion Sensor

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*Senses People Up to  
16 Feet Away*

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*Adjustable Range*

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*FCC Approved*

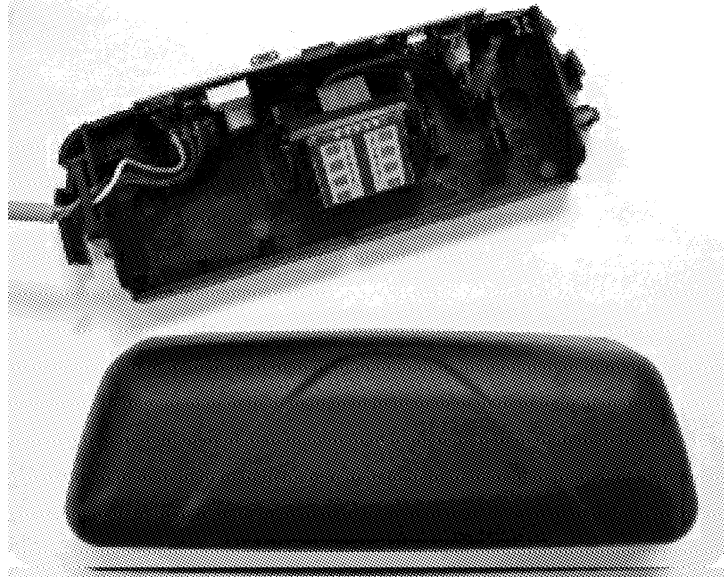
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*Reliable Microwave  
Technology*

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*May Be Concealed  
Behind Exhibit*

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**BB-200 Motion Sensor Top: Cover Removed**

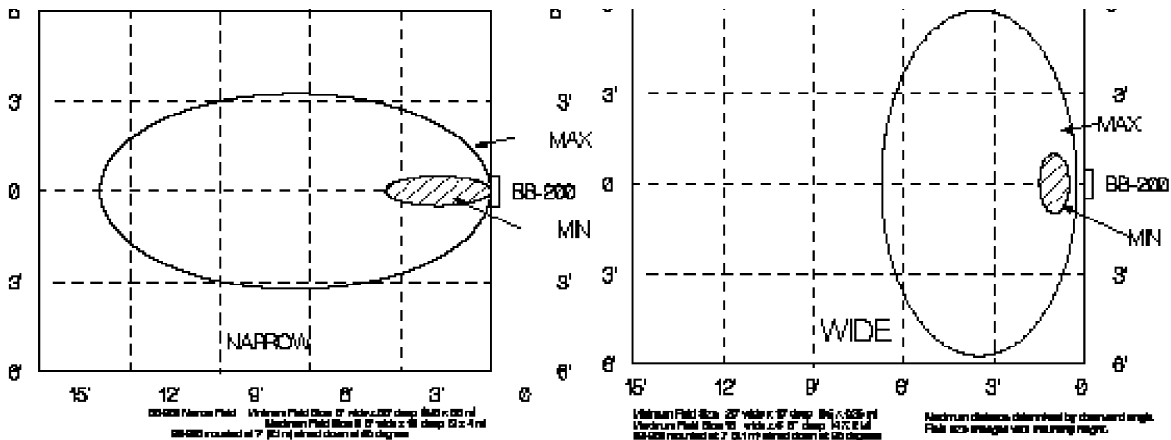
Based on the Doppler Principle, the BB-200 provides a compact and reliable method of detecting when a visitor approaches an exhibit. Unlike passive infra-red detectors used in burglar alarms and driveway lights, the low power radar beam may be aimed to cover a specific area. Also, the range, or sensitivity, 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.

# BB-200 Microwave Motion Sensor



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