

Model 663 Microwave Motion Sensor

All dimensions shown in inches and (millimeters)
unless noted otherwise

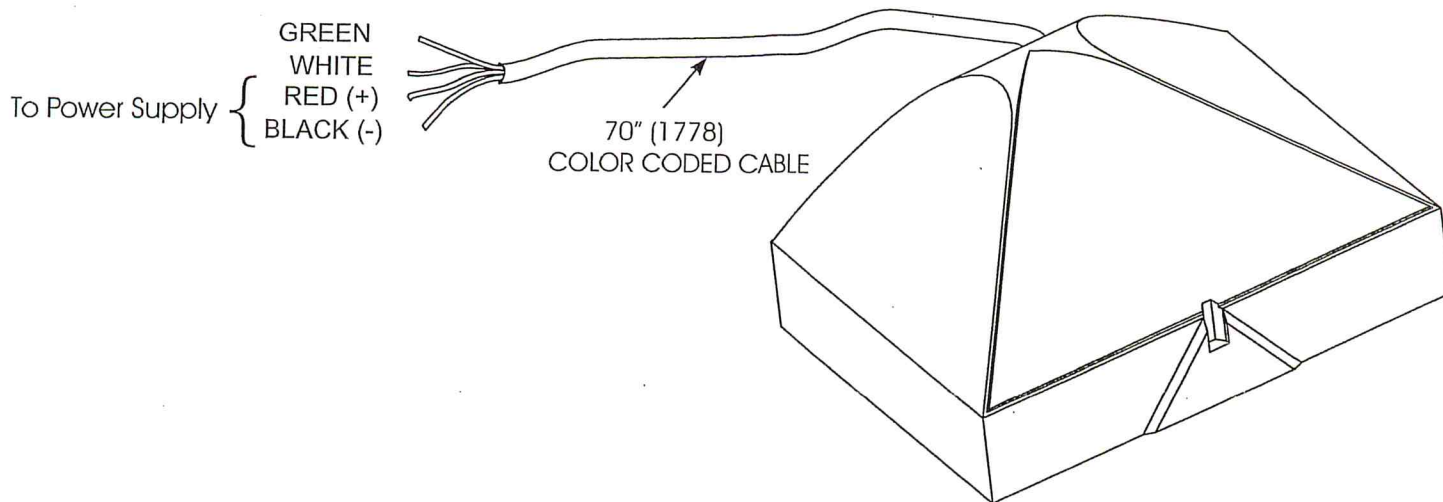
NOTE: This product may be used for operation of labeled fire or smoke barrier doors; however, it can not be fastened to the frame. It may be fastened to an adjacent wall or ceiling.

Sensor Information

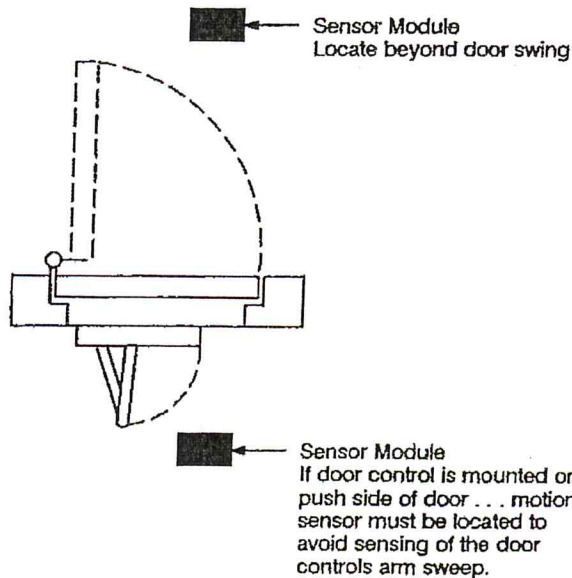
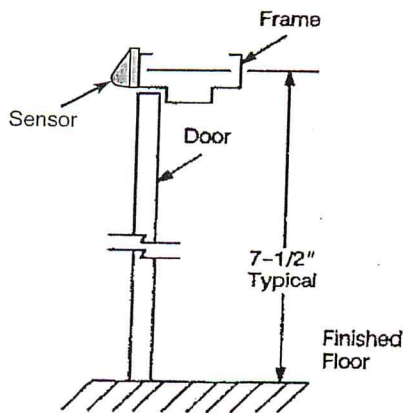
- Voltage _____ 24
- VDC Amperage _____ .200
- Amps Contact Rating _____ 1 Amp @
- 24VDC
- Relay Output _____ (N.O.) Used

- Frequency FCC Certified, Part 15 10.525 Ghz
- Operation Temperature -30°F to 122°F
- Angle Adjustment -20° to -35° in increments of 3°.

Relay hold open time adjustable: .5 to 10 Seconds



Typical Mounting



Signage
253



See Step No.10 on reverse side of this sheet for sign usage and application

Components

- (1) Sensor Module Assembly
- (2) Number 8 x 1/2" RHMS Thread Cutting
- (1) 70" (778) Color Coded Cable

Sign (door Mounted)

- (1) Number 253

Important: 120VAC POWER INPUT to PowerMatic circuit board must be turned OFF while making switch connections to the circuit boards terminal strip.

Installation

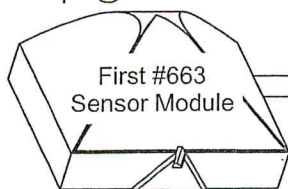
NOTE: Mounting surface for sensor module should be firm and stationary, free from potential vibration to avoid false actuation

Sensor Module may be fastened to door frame (if not a fire door), wall or ceiling...Care should be taken to avoid installing too close to the opening for "pull" side of door operation, or interference with the door control's arm assembly if both door control and sensor module are located on the "push" side of the door.

1. Locate and drill mounting holes:
Use self adhesive template provided.

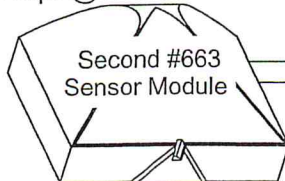
2. Install both screws part way (#8 x 1/2" screws provided).
3. Insert cable thru the Ø1/4" hole to the connection point in the header to the back of motion sensor. Leave about 6" of cable hanging out.
4. Remove the protective cover from the sensor by holding the sensor firmly, and gently prying the cover off with a flat blade screw driver.
5. Remove the electrical connector on the back of the sensor, and connect wires as shown below. Plug the connector back onto sensor.
6. Place the sensor right hand slot (horizontal) around the right hand mounting screw. Once in place, rotate sensor to align left vertical slot diameter with the left hand screw, push down and secure by tighten both screws. Caution should be taken to prevent pinched wires between mounting surface and back of sensor.
7. For other adjustments see Manufacturer Instructions
8. Using wiring information below, make connections to terminal strips in the PowerMatic™ control unit. Note that a maximum of 2 #663 Sensor Module may be powered by one PowerMatic™ door control unit.
9. Reassemble cover.
10. Sign #253: Peel off backing and apply for high visibility on the door surface.

Microwave Motion Sensor
.083 Amps @ 24VDC

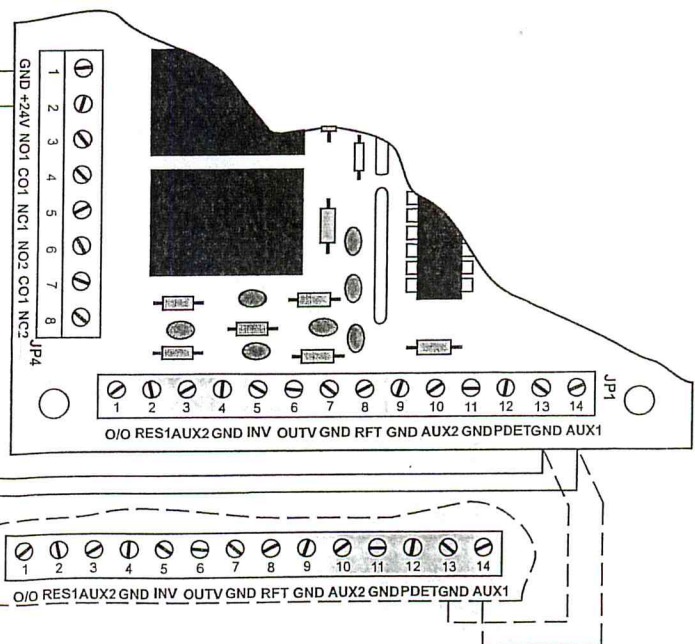


BLACK
RED
WHITE
GREEN

Microwave Motion Sensor
.083 Amps @ 24VDC

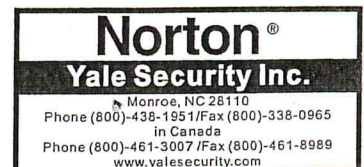


BLACK
RED
WHITE
GREEN



NOTE:

1. Current draw must not exceed .500 Amps at JP4 terminal strip contacts 1 and 2 combined.



The access code (1 to 4 digits) is recommended to set sensors installed close to each other.

SAVING AN ACCESS CODE:

DELETING AN ACCESS CODE:

Once you have saved an access code, you always need to enter this code to unlock the sensor. If you forget the access code, cycle the power. For the first minute, you can access the sensor without an access code.



TROUBLESHOOTING

	The door remains closed. The LED is OFF.	The sensor power is off.	1 Check the wiring and the power supply.
	The door does not react as expected.	The door control setting (F2) is set to value 3 (closed).	1 Change the door control setting (F2) to value 1 (automatic).
	The door opens and closes constantly.	Improper output configuration on the sensor.	1 Change the output configuration setting on each sensor connected to the door operator.
	The door opens constantly.	The sensor is disturbed by the door motion or vibrations caused by the door motion.	1 Make sure the sensor is fixed properly. 2 Make sure the detection mode is unidirectional. 3 Increase the antenna angle. 4 Increase the immunity filter. 5 Reduce the zone size.
	The door opens for no apparent reason.	It rains and the sensor detects the motion of the rain drops.	1 Make sure the detection mode is unidirectional. 2 Increase the immunity filter. 3 Install the rain accessory.
		In highly reflective environments, the sensor detects objects outside of its detection zone.	1 Change the antenna angle. 2 Decrease the zone size. 3 Increase the immunity filter.
	The LED flashes quickly after unlocking.	In airlock vestibules, the sensor detects the movement of the opposite door.	1 Change the antenna angle. 2 Change the antenna. 3 Increase the immunity filter.
	The sensor does not respond to the remote control.	The sensor needs an access code to unlock.	1 Enter the right access code. 2 If you forgot the code, cycle the power to access the sensor without access code. Change or delete the access code.
	Batteries in the remote control are weak or installed improperly.		1 Check and change the batteries if necessary.
	Remote control poorly oriented.		1 Point the remote control towards the sensor.

ANSI / AAADM Compliance

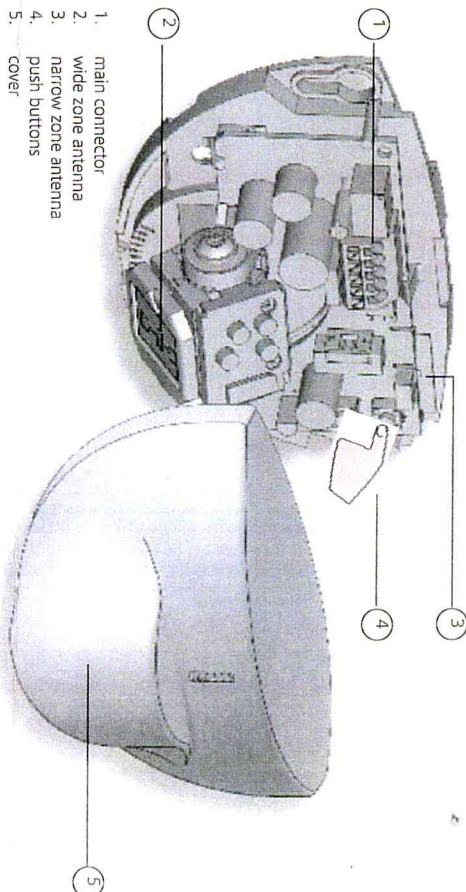


Upon completion of the installation or service work, at a minimum, perform a daily safety check in accordance with the minimum inspection guidelines provided by AAADM. Provide each equipment owner with an owner's manual that includes a daily safety checklist and contains, at a minimum, the information recommended by AAADM. Offer an information session with the equipment owner, explaining how to perform daily inspections and point out the location of power/operation switches to disable the equipment if a compliance issue is noted. The equipment should be inspected annually in accordance with the minimum inspection guidelines. A safety check that includes, at a minimum, the items listed on the safety information label must be performed during each service call. If you are not an AAADM certified inspector, BEA strongly recommends you have an AAADM certified inspector perform an AAADM inspection and place a valid inspection sticker below the safety information label prior to putting the equipment into operation.

DESCRIPTION



EAGLE
Unidirectional activation sensor for automatic pedestrian doors*



TECHNICAL SPECIFICATIONS

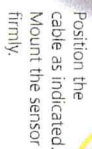
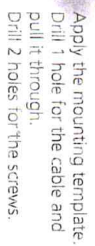
Technology:	microwave and microprocessor
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm ²
Detection mode:	motion
Min. detection speed:	2 in/s
Supply voltage:	12V to 24V AC $\pm 10\%$; 12V to 24V DC $\pm 30\%$ / -10%
Mains frequency:	50 to 60 Hz
Max power consumption:	< 2 W
Output:	relay (free of potential change-over contact)
Max. contact voltage:	42V AC/DC
Max. contact current:	1A (resistive)
Max. switching power:	30W (DC) / 60VA (AC)
Mourning height:	from 6 ft to 13 ft
Degree of protection:	IP54
Temperature range:	from -4 °F to + 131 °C
Dimensions:	4.7 in (L) x 3.1 in (H) x 2.0 in (W)
Tilt angles:	0° to 90° vertical; -30° to +30° lateral
Material:	ABS
Weight:	7.6 oz
Cable length:	8 ft
Norm conformity:	R&TTE 1999/5/EC, LVD 2006/95/EC, RoHS 2 2011/65/EU

* Other use of the device outside of the intended purpose can not be guaranteed by the manufacturer.

- ## 1 OPENING THE SENSOR



APPLICATIONS



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