



82147 – 600 DMP System

Installation Instructions

DOR - O - MATIC®

7350 W. Wilson Ave.
Harwood Heights, IL 60706

Toll Free: 1-800-543-4635
In Illinois: 708-867-7400
Sales FAX: 708-867-0291
www.doromatic.com

DA-336

**COMBINED
SAFETY &
ACTIVATION
SENSOR**

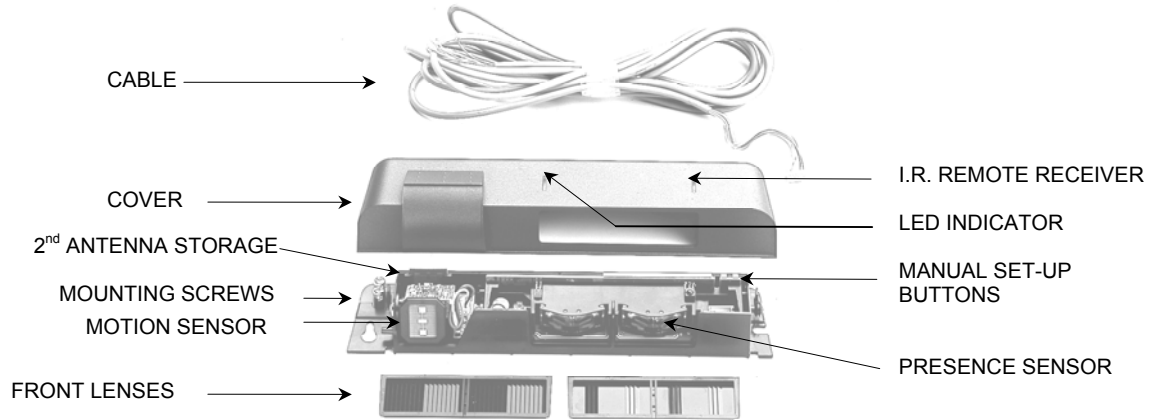
The 82147-600 sensor combines k-band microwave and focused active infrared technology to provide superior activation and safety for an automatic sliding door system. For activation, the unit provides digitally processed and sophisticated motion tracking technology for unidirectional sensing when energy conservation is critical. For safety, the unit emits 2 rows of 24 beams of focused presence technology that provides extraordinary safety. The active infrared remains active even when the door is closing.

**TECHNICAL
SPECIFICATIONS**

TECHNICAL SPECIFICATIONS	
Supply voltage	12 to 24 VAC / VDC: -5% to +10%
Power frequency	50 / 60 Hz
Power consumption	< 3 W
Mounting height	
• Standard	5'9" to 8'2"
• High	8'2" to 13'
SMR data input	10 to 30 V DC
Delay of the output activation after stimulation	transistor : < 1ms
3-color LED	<ul style="list-style-type: none"> • RED : presence detection • GREEN : motion detection • ORANGE : monitoring process
Temperature range	-30°F to +131°F
Degree of protection	NEMA 3S / (IP54)
Product conformity	R&TTE 1999/5/EC & EMC 89/336/EEC BZT Germany, TÜV
Dimensions	10.4 " x 2.2 " x 1.9 "
Weight	.55 lbs / 250 g
Housing material	ABS & LURAN S
Color of Housing	Anthracite gray (standard), aluminum or white finish
Cable length	8' of six-conductor cable

	MOTION SENSOR	PRESENCE SENSOR
Technology	Microwave and microprocessor Transmitter frequency : 24.125 GHz Transmitter radiated power : < 20 dBm EIRP Transmitter power density : < 5 mW/cm ²	Focused active infrared and Self-monitored microprocessor Spot diameter (standard) : 4" max Number of spots : 24 or 12 spots by curtain Number of curtains : 2
Detection field (standard)	<ul style="list-style-type: none"> • Wide field • Narrow field 	<ul style="list-style-type: none"> • Wide field • Narrow field
Detection mode	Minimum detection speed 2 inches / sec. (measured in the sensor axis)	Response time : < 128ms
Angle :	from 15° to 50° in elevation (adjustable)	from - 4° to + 4° (adjustable)
Output specification	Relay (free of potential change-over contact) : <ul style="list-style-type: none"> • Max contact voltage : 42V AC/DC • Max contact current : 1A (resistive) • Max switching power : 30W (DC) / 60VA (AC) 	Transistor (optocoupled transistor) <ul style="list-style-type: none"> • Max output current : 100 mA • Max switching power : 48 V DC
Output hold-time	0.5s to 9s (adjustable)	1s (fixed)
Manual adjustment	<ul style="list-style-type: none"> • orientation of sensing field (mechanically) • shape of the sensing field (choice of antenna) • multiple functions (using push buttons). 	<ul style="list-style-type: none"> • orientation of sensing field • shape of the sensing field (choice of front lens) • multiple functions (by push buttons).
Remote control adjustments	<ul style="list-style-type: none"> • Sensitivity. • Hold time. • Detection mode. • Immunity • Output configuration. 	<ul style="list-style-type: none"> • Sensitivity. • Auto-learn time • Monitoring mode • Number of Curtains • Transistor configuration. • HF lamp mode. • Snow Mode

COMPONENT ID



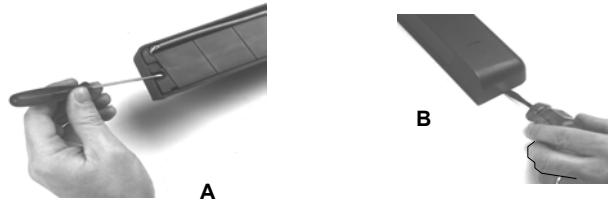
SAFETY PRECAUTIONS



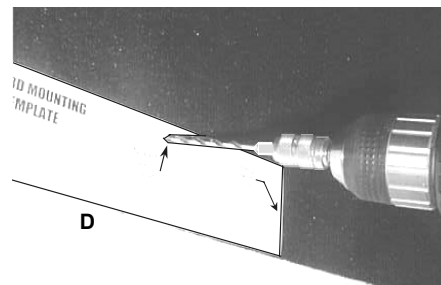
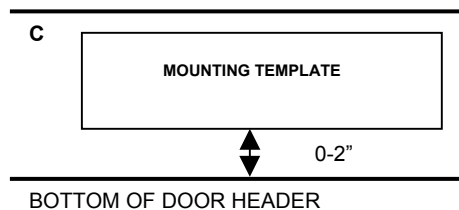
- Shut off all power going to the header before attempting any wiring procedures.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- Always check placement of all wiring before powering up to insure that moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.

MECHANICAL INSTALLATION

1. Remove the cover from the unit as shown in picture "A". After the sensor is attached to the header, the cover may be removed by inserting small screwdriver behind the sensor and gently prying cover off as shown in picture "B".



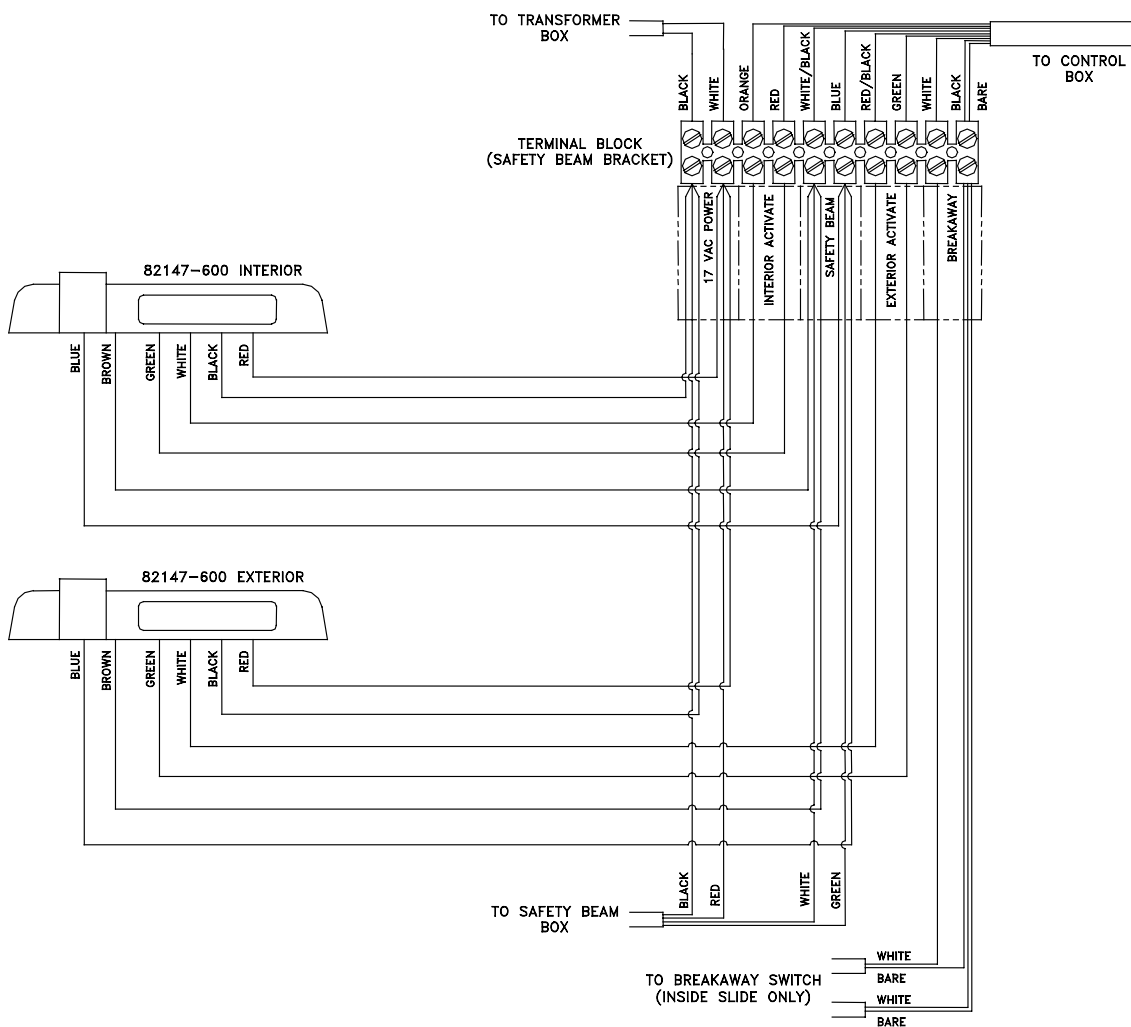
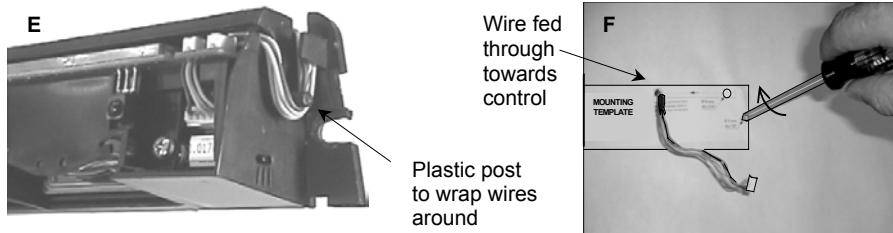
2. Attach mounting template to the center of header as shown (C) – template should be 0"-2" above bottom edge of header. Drill the hole marked for wire passage and drill pilot holes for screw mounting (D).



3. Insert mounting screws about halfway in (F shown on next page), and install the sensor onto the screws. When in place, tighten screws to secure to header. Leave cover off until mechanical adjustments are complete.

**ELECTRICAL
INSTALLATION**

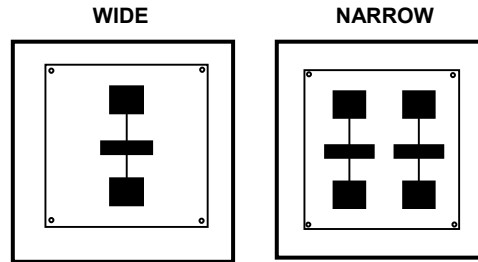
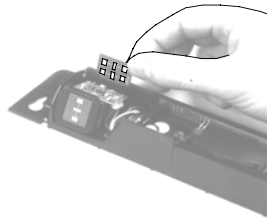
1. With sensor in place, locate the enclosed cable and feed the stripped end through the wire passage hole in header from the sensor side as shown in Picture (F). Leave enough slack to allow connection to the sensor and proper routing of wire around the plastic posts (E). Please observe proper routing of the cable as shown – this is to divert rainwater from the sensor if it should run down the cable, and also provides for proper routing to allow easy cover installation on the sensor.



2. After cable is properly routed, determine the requirements for the application and make the wire connections inside of the header as shown in the following diagram.

**MECHANICAL
ADJUSTMENTS**

1. Insert the desired microwave planar antenna for a narrow or wide field of detection. Refer to the diagram below for approximation of field size for each pattern.

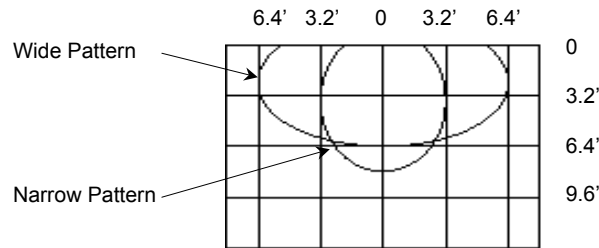


7'-0" height = [13' (W) X 6' 6" (D)] [6' 6" (W) X 8' 2" (D)]

- The optional narrow-field antenna is located in a slot behind the mounted antenna as shown.
- To remove the antenna, carefully remove the protective cover and change antenna.
- Once proper antenna is in place, adjust angle of antenna as necessary.

**MECHANICAL
ADJUSTMENTS
MOTION SENSING
FIELD**

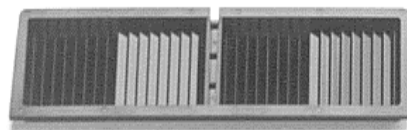
1. The position of the sensing field is determined by the vertical angle of the planar antenna. The angle is adjusted in 3° increments by gently rotating the antenna forward or back. The default mounting angle is 30° - Patterns shown in diagram below are those at 30°.



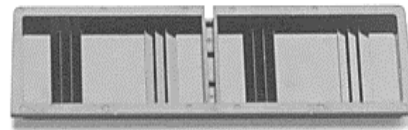
2. The tilt angle will be greatly determined by the position of the sensor with relation to the face of the door. A 15° angle will result in the pattern being drawn back towards the door, whereas the 45° will place the pattern farther away. Be certain to walk-test detection field and ensure compliance with current applicable ANSI standards.

**MECHANICAL
ADJUSTMENTS
PRESENCE
SENSING FIELD**

1. Install the desired lens for the infrared curtain (presence), as shown below.
 - Narrow Lens is suitable for smaller door openings or high mounting height applications.

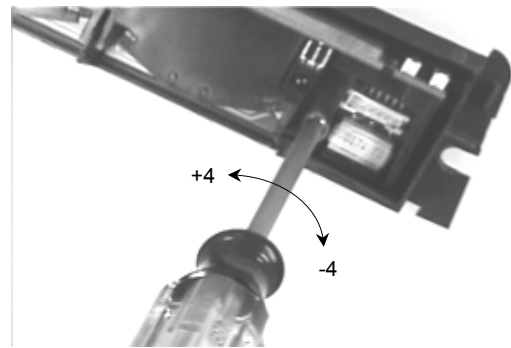
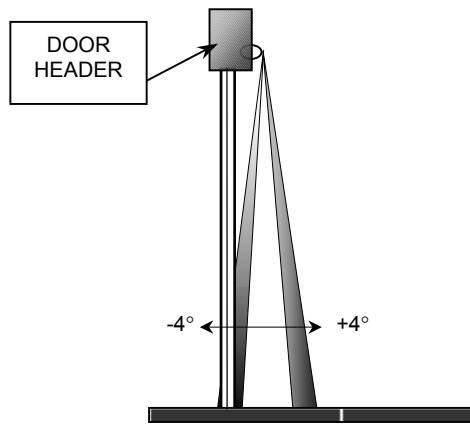


Narrow-field Lens
[3'3" (W) X 13.75" (D)]



Wide-field Lens
[6' 6" (W) X 13.75" (D)]

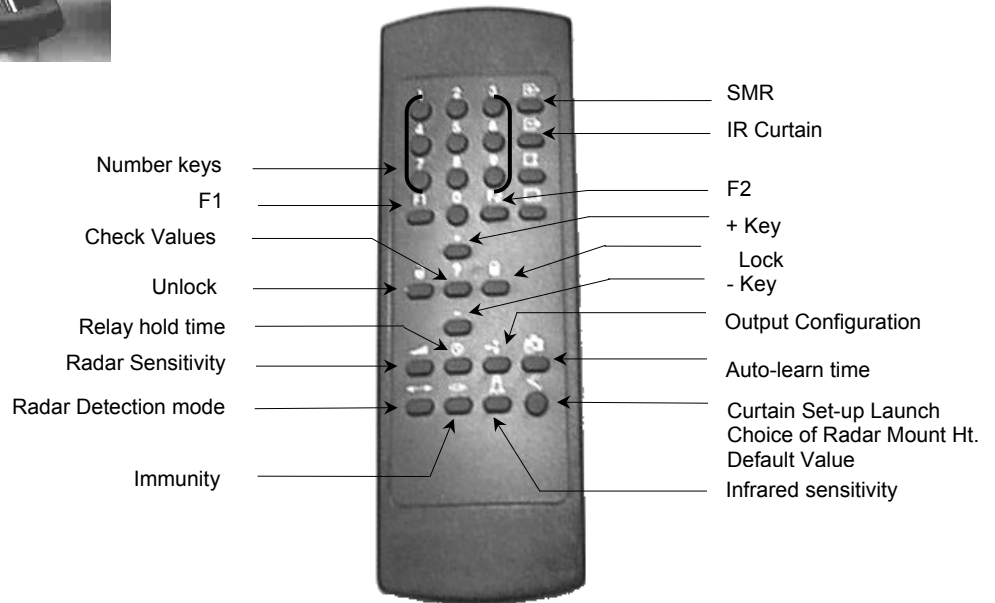
2. The infrared presence pattern may be adjusted in two different ways:
 - First, the pattern may be adjusted nearer or farther from the door.
 - Second, the pattern width may be adjusted to suit the particular door application
3. The adjustment screw will bring the pattern nearer or farther from the face of the door by adjusting the tilt angle from +4° to -4°. At the standard mounting height, one complete clockwise turn of the adjustment screw will move the pattern approximately 3 inches closer to the door.



74610-900
UNIVERSAL
REMOTE
CONTROL









- Open the battery compartment at the back of the remote control.
- Insert 2 AAA batteries – observe polarity
- Close battery compartment






**PROGRAMMING GUIDE:
LOCKING &
UNLOCKING**





All program changes and inquiries can only be accomplished while the sensor is unlocked.















KEY	USER'S ACTIONS	DEFAULT	LED STATUS
UNLOCK 	Press the UNLOCK key once, then enter your 4-digit code to unlock the sensor.  0-9 0-9 0-9 0-9	0000	The red LED will flash quickly after UNLOCK is pressed once. After entering the valid code, sensor will flash red LED slowly. If access code is set to the factory default value of 0000, the sensor will automatically unlock after the UNLOCK key is pressed once. The red LED will immediately begin to slowly flash red.
LOCK 	When all parameters have been set, press the LOCK key once. If you wish to enter a new access code, use the 0-9 number keys and enter the new 4-digit code within 20 seconds. If you choose not to enter a new code, press the LOCK key once more, and the existing code will be retained. If no key is pressed within 1 minute, the sensor will lock with it's existing code being retained.   = Locked with existing code. <hr/>  0-9 0-9 0-9 0-9 = Locked with new code that is entered.	0000	After locking, the red LED stops flashing and the sensor will no longer be in a program mode.





**PROGRAMMING GUIDE:
INQUIRE ABOUT
SETTINGS**

KEY	USER'S ACTIONS	DEFAULT	LED STATUS
CHECK VALUES 	Press the function key that you desire to inquire about, followed by pressing the INQUIRY key. After pressing INQUIRY, count the number of green LED flashes – this corresponds to the setting. EXAMPLE:   = 7 = Default sensitivity value		After pressing a function button, the red LED flashes quickly. After pressing the INQUIRY key, the green LED flashes the number of the current setting. No green flash will indicate a setting of 0.

PROGRAMMING GUIDE

RADAR SENSITIVITY 	Sensitivity alters the sensitivity of the motion field only. Values range from 0 to 9, minimum to maximum respectively.  0 = Minimum sensitivity 9 = Maximum sensitivity	7	After pressing the SENSITIVITY key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.
RELAY HOLD TIME 	Relay hold time refers to the hold time on the output relay of the sensor. Values range from 0 to 9, .5 seconds to 9 seconds respectively.  0 = .5 secs. 1 = 1 sec. to 9 = 9 seconds. 1 through 9 in 1 second increments.	0.	After pressing the RELAY HOLD TIME key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.

KEY	USER'S ACTIONS	DEFAULT	LED STATUS
<p>OUTPUT CONFIGURATION</p> 	<p>The Output configuration has 4 possible output values:</p>  <ul style="list-style-type: none"> 1 = N.O. relay, N.C. transistor 2 = N.C. relay, N.O. transistor 3 = N.C. relay, N.C. transistor 4 = N.O. relay, N.O. transistor 	4	After pressing the OUTPUT CONFIGURATION key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly. (N.O. indicates relay closure upon detection and power-off would result in an open relay).
<p>AUTO-LEARN</p> 	<p>The Auto-Learn time enables the sensor to adapt to new permanent changes within its field of detection, after the set time (below) expires. Once expired, the sensor will return to a state of non-detection.</p>  <ul style="list-style-type: none"> 0 = 30 seconds 1 = 1 minute 2 = 2 minutes 3 = 5 minutes 4 = 10 minutes 5 = 15 minutes 6 = 20 minutes 	1	After pressing the AUTO-LEARN key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.
<p>RADAR DETECTION MODE</p> 	<p>Detection mode offers 3 different levels of detection: Bi-directional, Uni-directional and Uni-directional with MTF (motion tracking feature). MTF allows the sensor to switch from uni-directional to bi-directional upon detection from the normal approach direction.</p>  <ul style="list-style-type: none"> 1 = Bi-directional 2 = Uni-directional 3 = Uni-directional with MTF 	3	After pressing the DETECTION MODE key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.
<p>IMMUNITY (motion)</p> 	<p>Immunity reduces the influence of unwanted disturbances within the field of motion detection, without reducing the pattern.</p>  <ul style="list-style-type: none"> 1 = Extreme sensitivity 2 = Normal Sensitivity 3 = Reduced sensitivity 	2	After pressing the IMMUNITY key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.
<p>INFRARED SENSITIVITY</p> 	<p>Infrared sensitivity reduces the influence of unwanted disturbances within the field of presence detection.</p>  <ul style="list-style-type: none"> 1 = Low sensitivity – hi gloss floors 2 = Normal sensitivity 	2	After pressing the INFRARED SENSITIVITY key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.
<p>RADAR MOUNTING HEIGHT</p> 	 <ul style="list-style-type: none"> 0 = launch infrared set-up (learn background). 1 = Microwave at normal mounting height 2 = Microwave at high mounting height (8' 2" to 13') 3 = Restore all parameters to default value 	1	After pressing the INFRARED SENSITIVITY key + 0, the red / green LED flashes to indicate set-up. After pressing the INFRARED SENSITIVITY key + 1, 2, or 3 the red LED will flash slowly.
<p>SMR</p> 	<p>SMR (Self-Monitoring Ready) mode is enabled for the use with BEA's DCU (Door Control Unit). It is disabled for all other applications. The DCU sends & receives monitoring signals to the sensor when this feature is enabled. The DCU can then take control of a door in the event of a sensor failure.</p>  <ul style="list-style-type: none"> 0 = SMR Input OFF 1 = SMR input ON 	0	After pressing the SMR key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.

PROGRAMMING GUIDE – Cont.	<p>IR CURTAIN</p> 	<p>The IR Curtain function allows the User to toggle the second IR curtain (farthest from the door) on & off. When the curtain is off, it operates in a motion sensing mode.</p>  <p>1 = 1 IR curtain (inner) ON. 2 = Both IR curtains (inner & outer) ON.</p>	2	<p>After pressing the IR CURTAIN FUNCTION key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.</p>
	<p>DOOR CONTROL FUNCTION</p> 	<p>The Door Control function enables the User to select a mode of door operation.</p>  <p>F2 1 = Door permanently open. 2 = Door permanently closed – no detection 3 = Door in automatic mode – sensor, upon detection, opens door.</p>	3	<p>After pressing the DOOR CONTROL FUNCTION key, the red LED flashes quickly. After pressing a number button, the red LED flashes slowly.</p>

RAIN MODE






RAIN MODE:

- The Rain Mode is designed to minimize the effect of heavy rain on the sensor's auto-learn requirements. Rain Mode will be enabled after the sensor goes through two auto-learn cycles without having a minimum of 6 operating cycles of the door between these 2 auto-learn cycles. During Rain Mode, auto-learn time will remain the same. However, the second infrared curtain will change from IR presence detection to IR motion detection. This is done to help eliminate unwanted detection of heavy rain, as well as its effects on the ground. The only required setting on the sensor to enable Rain Mode is IR Sensitivity, which must be set to a value of 2 (normal). This mode will automatically expire upon a power reset, or upon expiration of one hour. This mode could be launched again under the same conditions.

SNOW MODE

SNOW MODE:

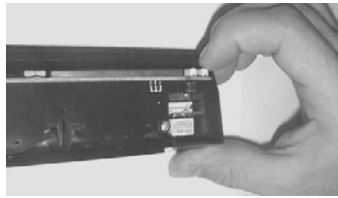
The Snow Mode is designed to minimize the effect of heavy snow on the sensor's auto-learn requirements. Snow Mode may only be enabled by performing the following:

- Using the remote control, Unlock the sensor as described in the programming guide.
  + unlock code, if necessary.
- Set Infrared Sensitivity to LOW (1).
  + 1 = Low Sensitivity
- Set Auto-Learn Time to 30 seconds (0).
  + 0 = 30 second learn-time
- Lock The Sensor when complete  + 
- After the above changes have been made, the sensor will go into the Snow Mode after it goes through 2 auto-learn cycles without having a minimum of 6 operating cycles of the door between these 2 auto-learn cycles.
- While in Snow Mode, the auto-learn time will change from 30 seconds to 10 seconds. This mode will automatically expire upon a power reset, or upon expiration of one hour, as long as the settings (as outlined above) are in effect. This mode could be launched again under the same conditions.

IMPORTANT NOTE:
When changing the values of the above parameters to go from one mode to another, one should force a set-up by remote control, push buttons, or by a power-off / on sequence.

**MANUAL SET-UP
(without remote)**

- Set-up of the sensor may be accomplished by the use of two sensor mounted programming buttons. The procedures below indicate how to program using these buttons.
- The two set-buttons are located at the right side of the sensor (as viewed when mounted to header). To begin, briefly press the right button and move away from the sensing patterns.



- Position yourself in the sensing field (the door opens)
- Hold the left button down (the door should close if the wiring is correct)
- Release the left button (the door should open again)

TO RESET THE UNIT to factory defaults including the access code.

- Press and hold both buttons simultaneously until both red and green LED lights flash alternately

TO CUSTOMIZE SETTINGS FROM FACTORY DEFAULTS

- To enter the customizing mode: Press the right button until the LED light flashes and then release
- To return to standard mode: Press the right button again until the LED light stops flashing and then release

CUSTOMIZING MODE

- The red LED light indicates the number for the parameter being altered (1 flash = parameter #1)
- The green LED light indicates the value for the parameter being altered (1 flash means value = 1)
- The right button enables selection of the parameter number being altered (+1 for each press)
- The left button enables alteration of the parameter (+1 for each press)

**MANUAL SET-UP
(without remote)**

PARAMETER NUMBER (altered by the right button and confirmed by GREEN LED)	PARAMETER	VALUES (altered by the left button and confirmed by RED LED)	DEFAULT VALUE
1	Radar Sensitivity	0-9	7
2	Relay hold time	0-9	0
3	Output configuration	1-4	4
4	Auto-learn presence sensing	0-7	1
5	Detection mode	1-4	3
6	Immunity	1-3	2
7	IR sensitivity	1-2	2
8	Radar mounting height	1-2	1
9	HF lamp rejection mode	0-1	0
10	Door control function	1-3	3
11	SMR mode	0-2	0
12	IR curtain	1-2	2

MANUAL SET-UP
(without remote) –
Cont.

EXAMPLE: Change radar sensitivity from 7 to 9 and set hold time to 4 seconds:

1. Press the right button for 2 settings, you will enter the customizing mode
 - The green LED flashes once (parameter 1)
 - The red LED flashes 7 times (sensitivity = 7)
 - Press the left button twice to move from sensitivity = 7 to sensitivity = 9
2. Press the right button once to move to Parameter 2 (relay hold time)
 - The green LED flashes twice (parameter 2)
 - The red LED does not flash (hold time = 0 seconds)
 - Press the left button four times to move from hold time = 0 to hold time = 4 seconds

NOTE:

1. When the highest value for the parameter has been reached, the value will “roll over” to its lowest value (e.g. for radar mode: 1, 2, 3, then 1, 2, ...).
2. The sensor automatically returns to standard mode if neither button has been pressed for one minute.

STEP 1	With all wiring in place, apply power to door control and 12 to 24 VAC / VDC: -5% to +10% to sensor. Once powered, observe LED status on the sensor. Stop all traffic through the doorway while performing this step, and remain clear of the sensor’s detection zones.	The sensor will flash a red / green LED during the set-up procedure. Once the sensor completes set-up, the door will close and begin normal operation thereafter.
STEP 2	Once set-up is complete, the LED indication will reflect the status of the set-up. Observe the LED while standing outside of the detection zones.	<ul style="list-style-type: none"> • NO LED = Successful set-up • RED LED ON = Presence being detected - sensor is seeing an object. • RED LED Flashing for 10 seconds. Infrared curtains are too close to door. Adjust curtains using the Spotfinder. • GREEN LED MOMENTARILY ON = MOTION DETECTION (sensor sees movement). • ORANGE LED ON = sensor is executing a Self-Monitoring test (only when SMR mode is enabled). LED should expire in approx. 6 seconds. If LED stays on, reset power and observe LED. If it comes back on steady, replace sensor.
STEP 3	Proceed with fine tuning the mechanical , as well as the program adjustments of the sensor. Refer to the applicable sections of this manual for altering any settings. Be sure to check: <ul style="list-style-type: none"> • Motion width & depth • Presence width & depth • Position of infrared curtain • Sensitivity of motion field 	Doors will always be adjusted to be in compliance with ANSI A156.10

TROUBLE-SHOOTING	PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
	Sensor will not power up.	1. Faulty power supply.	1. Insure correct power supply of 12 to 24 VAC/ VDC: -5% to +10%. Power should come from an isolated transformer – not from the door control.
	Orange LED is illuminated on sensor.	1. Sensor is in self-monitoring mode. 2. Internal fault within the sensor.	1. Orange LED should expire after self-monitoring test is complete (6 seconds). This occurs every 60 minutes. 2. If SMR is not being used, remove power from the sensor and re-apply. If orange LED illuminates and door will not enter into a set-up, replace faulty sensor.

TROUBLE-SHOOTING Cont.

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Red LED on at sensor.	1. Sensor in detection.	1. If red LED is on at sensor: a. Adjust infrared pattern away from the door and launch a new set-up. Refer to page 5 for infrared adjustments. b. If hi-intensity lights or high gloss floors are saturating the area of detection, change the Infrared Sensitivity setting to reduced sensitivity, and launch a new set-up to re-learn the environment. Refer to page 8.
Red LED flashes for approx. 10 seconds when attempting a set-up.	1. Infrared curtains are too close to the door and the sensor detects a door influence.	1. Adjust Infrared curtain as necessary.
Door opens when it should close.	1. Relay Configuration on wrong setting.	1. Check Relay Configuration setting. Refer to page 7.
Door will not close Red LED off at sensor.	1. 4-Way switch at door control in wrong position or is faulty. 2. Improper Relay Configuration on sensor. 3. Faulty door control.	1. Check to insure 4-Way switch for door is in the 1-Way or 2-Way position. If switch is in correct position, check switch with multi-meter for proper operation. 2. Check Relay Configuration setting on each sensor. Refer to page 7 for settings. 3. Remove all sensor inputs from the door control. If door remains open, fault exists with door control or motor. Refer to 96010-084 manual for further troubleshooting. If door closes with sensor inputs removed, fault exists with sensors or related wiring.
Door will not open.	1. 4-Way switch at door control in wrong position or is faulty. 2. Sensor not detecting traffic. 3. Faulty wiring between sensor and door control. 4. Faulty door control.	1. Check to ensure that 4-Way switch for door is in 1-Way or 2-Way position. If it is in correct position, check switch with multi-meter for proper operation. 2. Walk in and out of sensor detection area, if red LED does not illuminate check: a. Power supply for sensor: 12 to 24 VAC / VDC: -5% to +10% b. Check SMR setting on each sensor. The SMR should be disabled unless system is being used with BEA's Door Control Unit (DCU). c. Check Relay Configuration for each sensor. Refer to page 7. 3. Remove all sensor inputs from the door control. Jumper the common and activate terminals of the door control. If door does not open, fault lies within door control or motor. Refer to 96010-084 manual for further troubleshooting. If door opens, fault lies with sensors or related wiring. 4. Refer to Step 3.
Door keeps recycling open.	1. Sensor is seeing door. 2. Sensor is seeing movement from unwanted objects. 3. Vibration is triggering the sensor.	1. Observe LED status on each sensor. Green LED indicates motion detection, red LED indicates presence. If LED's are illuminating make sensor adjustments as necessary to eliminate unwanted detection. Check angle and sensitivity for presence and motion. 2. Check for moving objects in the path of detection, such as posters, banners, etc. 3. Locate source of vibration and correct as necessary.

TROUBLE-SHOOTING - Cont.	PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
	Sensor will not respond to remote control.	1. Batteries in remote are dead or are installed improperly.	1. Check to ensure that the batteries are installed correctly – observe polarity. 2. Replace batteries - AAA 1.5 volt.
	Sensor will not unlock when access code is entered.	1. Improper code being entered.	1. Reset code to the default value of 0000 by performing one of the following: a. Press the 2 buttons on the sensor simultaneously until the red & green led begin flashing. This will return ALL settings to their default value. b. Cut and restore power supply. No code is required to unlock during the first minute after powering. Reset code prior to locking.
	Red LED is flashing rapidly after attempting set-up.	Detection field was violated during set-up of the sensor.	1. Launch a new set-up and insure that the detection field remains all clear until set-up is complete. 2. Sensor may be seeing the door as it is closing. Adjust infrared curtain and launch a new set-up.

COMPANY CONTACT	<p>If after troubleshooting a problem, a satisfactory solution cannot be achieved, please call Dor-O-Matic Tech Services at (800) 543-4635 for further assistance.</p> <p>DO NOT leave any problem unresolved. If you must wait for the following workday to call Dor-O-Matic, leave the door inoperable until satisfactory repairs can be made. NEVER sacrifice the safe operation of the automatic door or gate for an incomplete solution.</p>
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