

Owner's Manual



for Automatic Sliding Doors Including LowEnergy Automatic Sliding Doors

A Member of:

AADM American Association of
Automatic Door Manufacturers

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M300 Owner's Manual

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Horton Automatics, A Division of Overhead Door Corporation

for **Automatic Sliding Doors**
Including **LowEnergy Automatic Doors**

1.0 Caution

CAUTION INFO

Figure 1: CAUTION Notice



2.0 Terminology

TERMINOLOGY

In the following manual, the word:

'Caution' means that injury or property damage can result from failure to follow instructions.

'Note' is used to indicate important steps to be followed or important differences in equipment.

3.0 To Our Customers cont.

It is your responsibility, as owner or caretaker of the equipment, to inspect the operation of your door system on a daily basis to ensure that it is safe for use by your invitees, customers, or employees.

This manual will provide you with a description of the operation and maintenance requirements of your door. It also provides the instructions for the *Daily Safety Check*.

3.0 To Our Customers

TO OUR CUSTOMERS

The purpose of this manual is to familiarize you with your automatic door system. It is essential that you **“know your system”** and that you recognize the importance of maintaining your door system in compliance with the industry standards for safety.

Should the door fail to operate as prescribed in the Daily Safety Check, or at any other time for any other reason, **do not attempt to repair or adjust the door**. Call an AAADM Certified service technician. These technicians are trained to service your door in accordance with applicable industry safety standards.

4.0 Service Availability

SERVICE AVAILABILITY

Horton Automatics' products are manufactured at the plant's facilities in Corpus Christi, Texas. A worldwide network of authorized independent distributors offers both installation and service. For the Horton Automatics Distributor in your area,

call 1-800-531-3111 or consult the Yellow Pages of your local telephone directory under 'Door Operating Devices'. Visit our website at '<https://www.hortondoors.com>'.

5.0 Compliance with Safety Standards

COMPLIANCE WITH SAFETY STANDARDS

Your door system was designed to the latest operating and safety standards. In order to ensure the continued safe operation of your door, it is important that:

- *Your door system be maintained in compliance with the standards of the industry.*
- *Proper decals and labels be applied and maintained on your doors. If decals are removed or cannot be read, request labels to be replaced when calling for service.*

- *All doors should be checked by an AAADM certified inspector at least annually.*

AAADM, the American Association of Automatic Door Manufacturers, has established a program to certify automatic door inspectors. Through this program, the inspectors are trained to check your door systems for compliance with the appropriate version of the **American National Standards Institute standard ANSI / BHMA A156.10 or ANSI / BHMA A156.38**.

6.0 What You Should Know

WHAT YOU SHOULD KNOW

Your local Horton Automatics door distributor will provide you with the following for each door after installation:

1. *Instruction on how to conduct the **Daily Safety Check** *(by walk-through example).*
2. *Location of function switches and instruction in their use.*
3. *Circuit breaker or main power disconnect location for each door system.*
4. *Number to call for service or questions about your system if you are uncertain of any condition or situation.*
5. *AAADM inspection form or a work order signed by an AAADM certified inspector.*
6. *A completed Annual Compliance Inspection label, located at the bottom of the Safety Information label affixed to the door.*
7. *Warranty information for each door.*

Note: If there are any problems, or if you are unsure about the safe performance of the door, **discontinue door operation immediately** and secure the door in a safe manner. Call your authorized automatic door professional for repairs.

***Note: AAADM Daily Safety Check videos are available. Contact an automatic door supplier or AAADM.**

Automatic Sliding Doors are installed in a variety of combinations.

- *Single or BiParting (Including Telescoping Versions of each).*
- *Sliding Door Swings Out in an Emergency with Fixed Sidelite.*
- *Sliding Door Swings Out in an Emergency and Fixed Sidelite also swings Out.*
- *One-Way Traffic or Two-Way Traffic.*
- *Activated by Floor Mat, Sensors, or Push Switches (Knowing Act).*

Automatic Sliding Doors always require a Safety Zone to cover the area in or near the door travel. The Exception: LowEnergy Doors.

7.0 Daily Safety Check

DAILY SAFETY CHECK Sensor Actuation/ Threshold Safety

(Please note that all figures and diagrams are for illustration purposes only).

Perform the following safety checks daily on each automatic sliding door to ensure your customers' safety and your own

protection. Perform these tests while traffic is restricted from all detection and sensing zones.

LowEnergy Automatic Sliding Doors must use Knowing Act Activation Only.

Figure 2

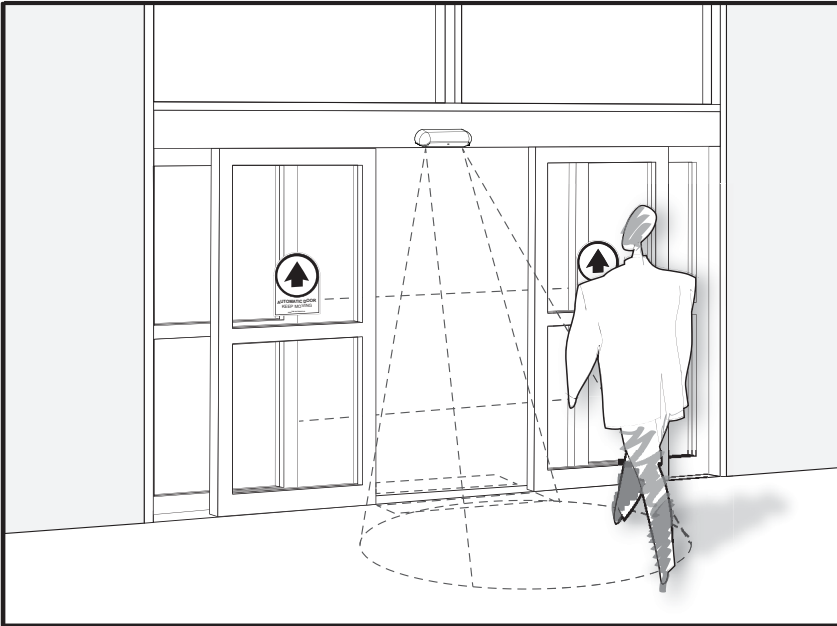
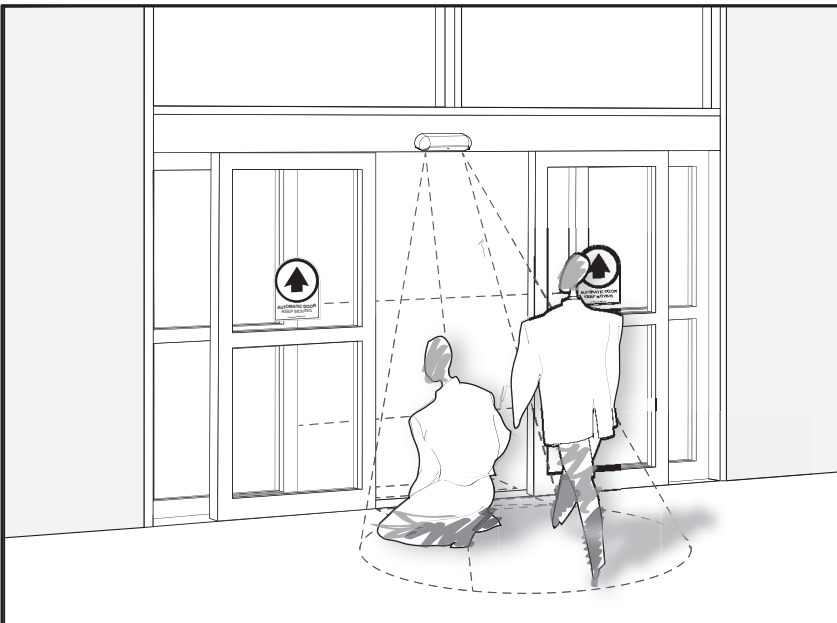


Figure 3



7.1 Sensor Actuation / Threshold Safety (Not Required for LowEnergy Slide Doors)

1. Check electronic sensor by walking toward the center of the door opening at various angles at a moderate speed. The door should start opening when you are about four feet from the door, should slide open smoothly, and stop without impact. Repeat on other side of opening. Move slowly through the door opening (6 inches per second). The door should remain open. (Refer to Figures 2 and 3 at Left)

Note: If your door is set up for One-Way Traffic, the sensor on the side not intended for approach should be active until the door is within 6 inches of fully closed. The sensor should re-open the closing door if a person is detected a minimum of 24 inches from the door.

2. Step out of the sensor zone. After a brief time delay (at least 1.5 seconds for Full-Power Sliding Doors and 5 seconds min. for LowEnergy Sliding Doors), the door should slide closed smoothly and should fully close without impact. Doors should be adjusted so they do not close faster than 1 foot per second.
3. Observe traffic routing to the door. Plan traffic routing so persons will approach the door straight on and not from an angle.
4. Walk parallel to the door front face and towards the center of the door opening to check that the detection pattern is at least as wide as the door opening. This test should be performed within approximately 12 inches from the door face. Repeat this test in both directions.
5. Check the Threshold Area Safety Zone. Activate the door to the Full-Open position. Stand motionless and crouch in several locations in and around the door path area for at least 10 seconds. The door should not close. (Refer to Figure 3 at Left)

DAILY SAFETY CHECK

Floor Mat Actuation

Figure 4



GENERAL SAFETY

Signage - Closing Speed

Figure 5: C1630-2 Decal For 2-Way Traffic. Place One on Each Sliding Panel.



Figure 6: C7280 Decal Place on Entry Side of Sliding Panels on Doors Using Push-Button Entry.



Figure 7: C1631-3 Decal For 1-Way Traffic. Place One on the Control/Egress Side of Sliding Panel.



Figure 8: C7282 Decal For Sliding Doors with Knowing Act Switches. Place on Switch Side of Sliding Panel.



7.2 Floor Mat Actuation

(Not Permitted for LowEnergy Slide Doors)

1. Step on the 'opening' (activating) Mat in several places. Door should slide open smoothly and stop without impact. (Refer to Figure 4)
2. Step through the doorway onto the mat on the other side. Door should remain fully OPEN without interruption. *Note: If there is more than one mat on each side, each mat should be tested.*
3. Step OFF the mat. After a brief time delay (at least 1.5 seconds, 5 seconds min. for LowEnergy Sliding Doors), the door should close slowly and smoothly without impact. Doors should be adjusted so they do not close faster than 1 foot per second.
4. Check the mat molding and threshold. It should be complete and secured with all screws required.

7.3 General Safety

Pay attention to the following General Safety Items and conduct checks periodically where noted.

1. **Signage.** Automatic Sliding Doors should have decals properly displayed. There should be decals that include the statements: 'AUTOMATIC DOOR' (in letters 1/2 in. high, minimum) and 'IN EMERGENCY - PUSH TO OPEN'. An adjacent sidelite or wall should have a 'STAND CLEAR' or similar decal in the slide path of the door. (See Figures 5, 6, 7, 8, 9, 10 and 11 for examples of some decals that may be used.) An AAADM safety information label should be affixed to the door frame in a visible, protected location.
2. **Closing Speed.** The closing time of the door must not be less than the minimum time as shown in the following table. This closing time is taken from full open to a point six inches from fully closed.
Example: If a single slide door with a nominal opening of 36 inches closes in 2.3 seconds, it is too fast and must be slowed down. If it closes in 3.0 seconds, it is in compliance.
3. The Force to prevent the door from closing should not exceed 30 lbs. For LowEnergy Doors, the force to prevent the door from opening or closing should not exceed 15 pounds. This can be measured with a Force Gauge.

7.3 General Safety cont.

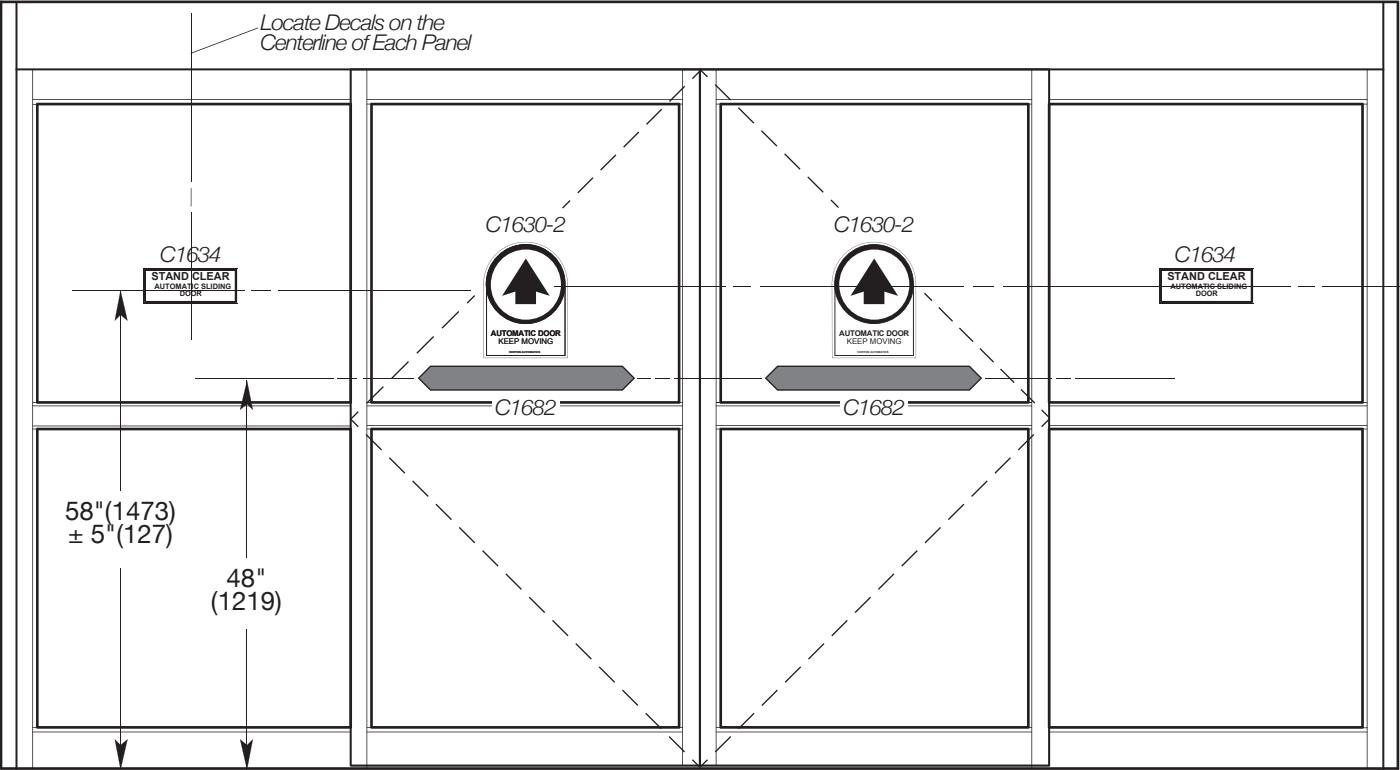
GENERAL SAFETY - Chart and Signage

Chart 1: Closing Speed and Door Closing Time as a Function of Door Opening Width

For LowEnergy Sliding Doors:
 1. Maximum Closing Speed is 6" per second.
 2. Maximum Opening Speed is 12" per second.

Figure 9: Decal Type and Placement
 Front Elevation- BiPart Sliding Door

Maximum Closing Speed - 1 Foot per Second (Except for LowEnergy Doors)		
Nominal Door Opening		Minimum Closing Time to Within 6 Inches of Closed
Single Slide	Bi-Part	
	48"	2 Sec
	60"	2.5 Sec
36"	72"	3 Sec
42"	84"	3.5 Sec
48"	96"	4 Sec



GENERAL SAFETY - Activating Switch

Figure 10: C1634 Caution Decal
 Place on Sidelites at Location Shown Above



Figure 11: C1682 Emergency Egress Decal
 For Doors with 'Knowing Act' Switch. Place on Switch Side of Sliding Panel.

IN EMERGENCY PUSH TO OPEN

7.3 General Safety cont.

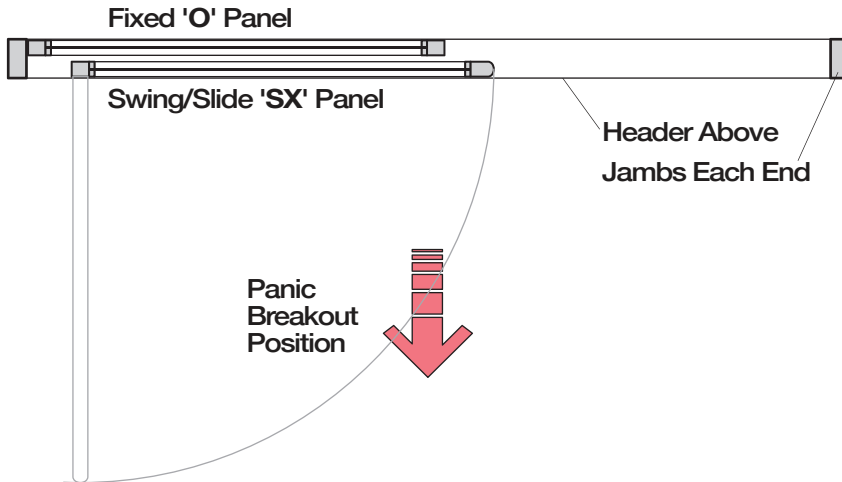
4. **Activating Switch.** (*Knowing Act*) Doors and LowEnergy Doors equipped with a manual operated switches shall when activated, hold the door open for five seconds minimum after release of activating switch.

Doors equipped with a manual activating switch shall have a Decal that reads: 'AUTOMATIC DOOR. ACTIVATE SWITCH OR PUSH TO OPERATE'. The decal should be visible from both sides of the door or the side with the 'Knowing Act' switch if there is only one. (Refer to Figure 8)

7.3 General Safety cont.

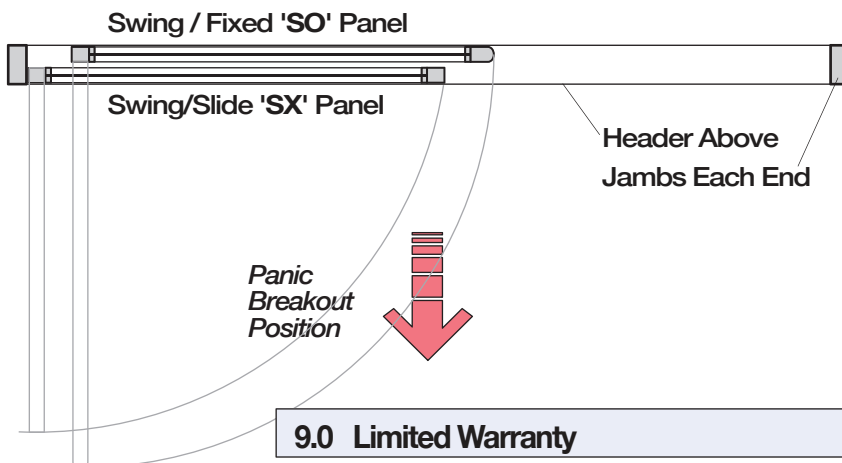
GENERAL SAFETY - Emergency Breakout

Figure 12: Breakout Sliding Door with Fixed Sidelite
 PLAN VIEW of SLIDING DOOR - Type O-SX (Fixed Panel - Swing/Slide Panel
 (Door Shown in Open Position)



GENERAL SAFETY - Housekeeping and Traffic Patterns

Figure 13: Breakout Sliding Door with Breakout Fixed Sidelite
 PLAN VIEW of SLIDING DOOR - Type SO-SX (Fixed Panel - Swing/Slide Panel
 (Door Shown in Open Position)



OPERATION

LIMITED WARRANTY

5. **Emergency Breakout.** Test by manually pushing door panel at lock area in direction of emergency exit. Release door. The door should either stop operation or spring to closed position. Make sure door panel or panels are properly re-latched. (Refer to Figure 12)

If the door is equipped with breakaway sidelites, door operation should stop when sidelites are broken-out. (Refer to Figure 13)

6. **Housekeeping.** Be sure floor guides are kept clean and free of any debris which could prevent proper door slide. Check the door area for tripping or slipping hazards. Check all door panels for damage. Make sure that all hardware and overhead covers are properly secured. There should be no bulletin boards, literature racks, merchandise displays, or other attractions that would interfere with the use of the door or invite people to stop or stand in the door area.

7. **Traffic Patterns.** Observe traffic patterns. Plan routing so people enter and exit in a straight approach, directly towards the center of the door opening.

**IF YOU HAVE A PROBLEM,
 TURN OFF THE DOOR
 OPERATING EQUIPMENT
 AND CALL AN
 AUTOMATIC DOOR SUPPLIER
 TO MAKE PROMPT REPAIRS.**

8.0 Operation

Regardless of the type of Actuation and/or Threshold Presence Sensing Device used, the basic test for Safe Operation remains the same. The door should not close if you stand motionless in the door opening for 10 seconds.

9.0 Limited Warranty

Horton Automatics (Seller) warrants to the Buyer all products they manufacture to be free from defects in material and workmanship, under normal use and service, for twelve months from the date product is placed in operation. The Seller's obligation under this warranty is limited to the repair or replacement at the factory, of any parts which shall be returned to the Seller with transportation charges prepaid and which after examination, prove to be defective. Said warranty shall not apply to such products

which shall have been installed, altered, or subjected to misuse, negligence or accident. The aforesaid warranty is made expressly in lieu of other warranties expressed or implied and in lieu of any other obligations or liabilities on the part of the Seller and the Seller neither assumes nor authorizes any person to assume for it any other liability or obligations in connection with the sale of such products to the Buyer.

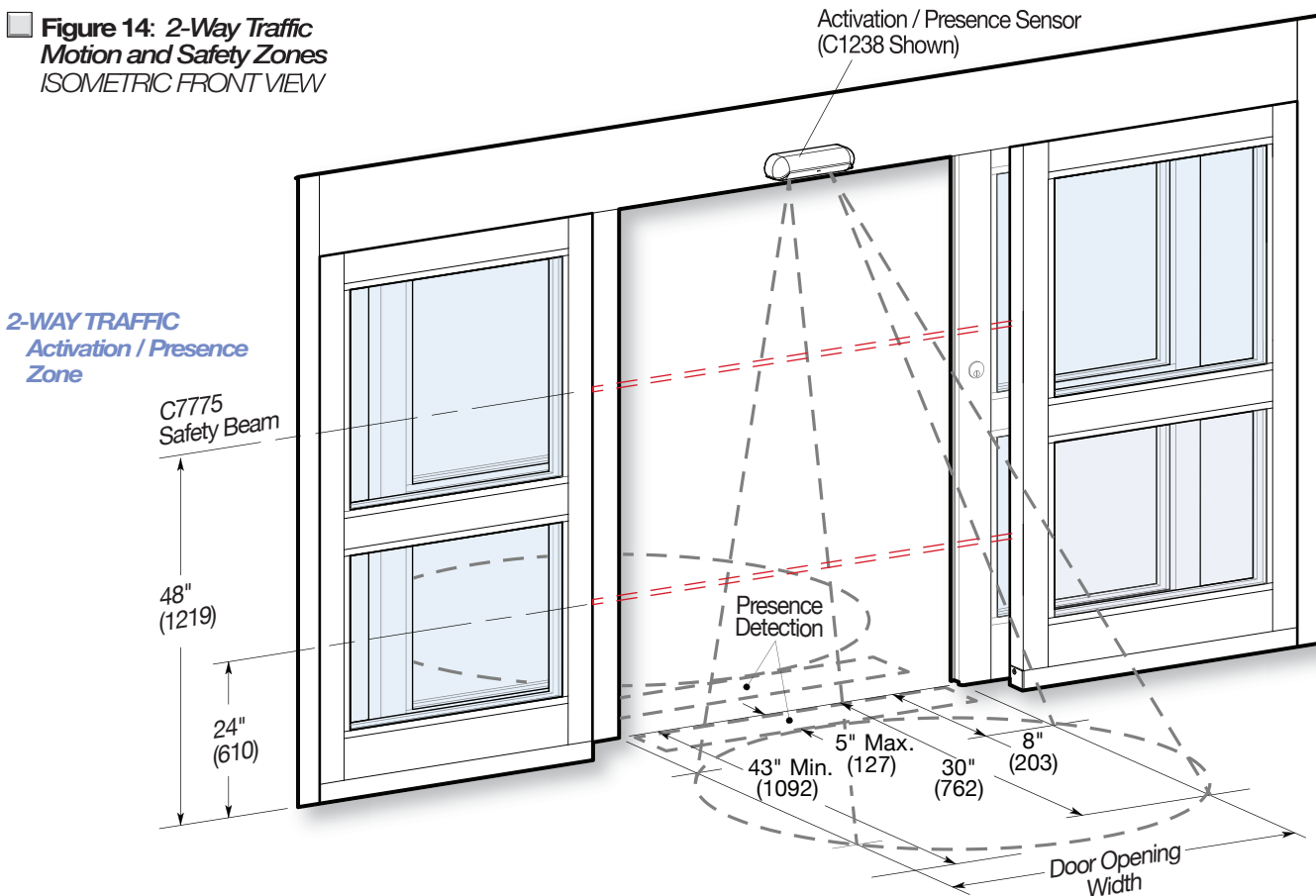
9.0 Limited Warranty cont.

LIMITED WARRANTY

There is no warranty of merchantability or fitness for any particular purpose, nor is there any warranty, expressed or implied, except as specifically stated in the previous paragraph. Seller shall not be liable for special or consequential damage, nor for claims of any third party against the buyer.

Generally, the installing distributor provides a one-year warranty covering the labor and transportation charges for defective parts replacement. If this is the customer's wish, it should be specified.

Figure 14: 2-Way Traffic Motion and Safety Zones
ISOMETRIC FRONT VIEW



2-Way Traffic Motion and Safety Zones

The following general information is provided as a recommendation for safe operation. Please note that a BiParting Unit is shown. Single Slides have similar layouts.

Note: Zone dimensions taken from face of sliding panel each side.
Dimensions given in U.S. Inches followed by Millimeters in parenthesis.



The Automatic Choice

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Product equipment depicted in the various drawings are approximate and for illustration purposes only. Consult manufacturer for detail product specifications. Horton Automatics reserves the right to improve the product and change its specifications without notice.