

TECHNICAL BULLETIN # 49

ANSI 156.10 - 2011 Updates

DISTRIBUTE TO ALL FIELD TECHNICIANS

Description

DATE: **07 November, 2011**

SUBJECT: The purpose of this bulletin is to provide summary updates of ANSI 156.10 - 2011

Discussion

The updates are for the following sections within ANSI 156.10 - 2011. Section 6 guide rails, Section 7 mats, Section 8 sensors, Section 9 knowing act, Section 10 entrapment and miscellaneous updates.

NOTE: This document is provided as a service by BEA to give our customers a summary update of the latest changes within ANSI 156.10 - 2011. For more specific language refer to the standard as this document is not a substitute for the Standard itself, which should always be adhered to according to its specific terms.

Section 6

GUIDE RAILS:

Guide rail length for folding doors will now be all the same regardless of which side the user approaches from.

Folding door guide rail length will be open door plus 12 inches. See 6.2.1

All other guide rail requirements remain unchanged.

Section 7

CONTROL MAT REQUIREMENTS:

No changes.

Section 8

SENSORS:

8.1.1: There is a new exception allowed and it's as follows. Exception: If the 43" activating zone length is not practical due to physical or environmental conditions, it shall be permissible to be reduced to 30 inches, along with an additional sign, visible from the side the zone has been reduced on, stating "AUTOMATIC CAUTION DOOR" as described in 11.2.3.

8.2.2.1, 8.2.2.2, 8.2.2.3 have inserted the word "presence" in front of sensor.

In 8.2.2.2 there are some clarifications when the overhead presence sensor (Bodyguard) is inhibited during the closing cycle. See next page for further details.

Section 8 (continued)

SENSORS (continued):

8.2.2.2: When an overhead presence sensor on the swing side is prevented from providing a safety signal to the control during the closing cycle, an additional sensor, sensors, or photo beam shall be used on the swing side to

- 1) stop the door, or
- 2) continue to close the door, or
- 3) slow the reopening door to a maximum latch edge speed of 4 in. per second measured within 1 in. of the latch edge before any contact is made.

8.2.2.2.(1): When using a photo beam, the detection width shall be not less than the clear opening; the beam shall be located between 6 and 28 in. above the finish floor, and not more than 8 in. from the lead edge of the door panel in the full open position (See Figure A-12A).

8.2.2.2.(2): When using a door mounted presence sensor, the detection area shall be effective to within 5 in. from the face of the door, for one half of the width of the door, and to within 1 in. of the lead edge, and shall detect a 28 in. minimum high person fully in the defined area. (See Figure A-12A)

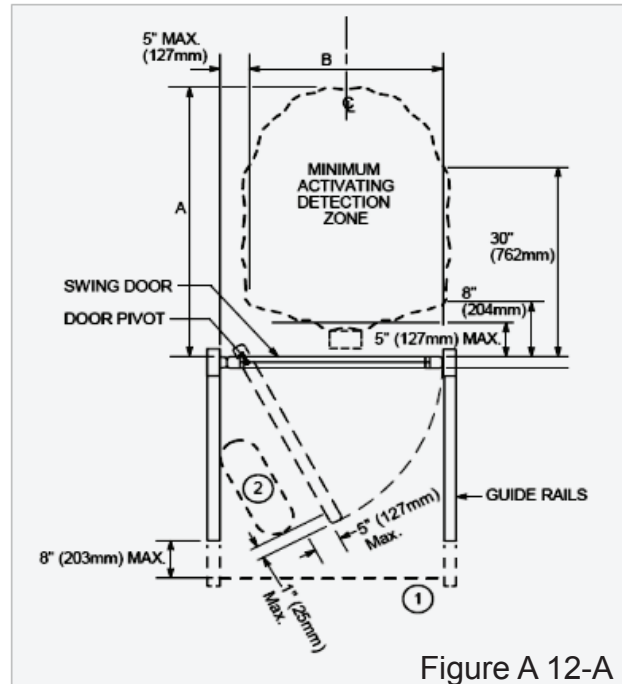


Figure A 12-A

8.2.2.3: Door mounted sensors. There are no changes.

8.3.2.2: Sliding doors; when using a presence sensor thru the door opening. (*i.e. Stanley Stanguard rule*). The following new rule is: The detection zone shall remain active from open to within 6 in. of closed, or shall have an overhead presence sensor active area within 3 in. from the face of the door or, a minimum of two photo electric beams on one side of the door, with the lower beam installed 6-28 in. and top beam 45-55 in. from the floor.

To ensure compliance, what this now means is in lieu of other options the installer/technicain has the option to install an overhead presence sensor (G3/Wizard II/Iris) on either side of the header when used in conjunction with the Stanley Stanguard sensor; provided this overhead mounted presence sensor has an active area within 3 in. from the face of the door as stated in the standard and above.

8.3.4: This is a new section on Telescoping Doors: 8.3.4 Telescoping Sliding Doors Activating sensors, overhead presence sensors, and beams are measured to the closest sliding panel on the side they are installed. If overhead presence sensors or beams are used, they shall not have an inactive area more than three inches from the face of the closest sliding panel, and not create an inactive area greater than 10 inches between the two non overlapping zones, and shall comply with the methods listed in 8.3.2.1 through 8.3.3. If the inactive area between the two non-overlapping zones exceeds 8 inches, the door shall remain fully open for 2.5 seconds minimum after loss of detection.

Section 9

KNOWING ACT DOOR ACTIVATION:

9.1.2: Have an installation height of a minimum of 36 in. and a maximum of 48 in., or as specified by the local building codes.

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Section 9 (continued)

KNOWING ACT DOOR ACTIVATION:

9.1.4: A new exception in 9.1.4 regarding the maximum push plate distance is allowed from the door. Exception: If located more than 12 feet from the center of the door, an additional time delay is required beyond the five second minimum. The additional time delay shall be a minimum of one second for each additional foot of distance. If a knowing act device is installed 15 feet from the center of the door the new hold open time delay will be 8 seconds. 5 second minimum + 3 seconds (*3ft beyond the max. 12 ft distance = 3 seconds*) = 8 second minimum hold open time delay.

Section 10

ENTRAPMENT PROTECTION:

10.2.2: Has a force requirement change in that a stopped swing door shall not have more than 30lbs of force in the last 10 degrees. Previously it was 40lbs.

Miscellaneous

- Telescoping Doors: A new door type was added to table 1. A new drawing, A-18E was added.
- Guide Rails: Folding door rail length was amended on drawing A-14.
- Knowing Act: Drawings A-19A, A-19B and A19C were amended.
- E-5 - Recommended Practices and Other Information has been updated.

ANSI / AAADM COMPLIANCE



Upon finishing the installation and/or service work perform at a minimum a daily safety check in accordance with the minimum inspection guidelines provided by AAADM. Provide each owner with an owner's manual that includes a daily safety checklist and contains at a minimum the information recommended by AAADM. Offer a familiarization session with the owner explaining how to do daily inspections and calling out location of cutoff switches to put equipment out of service if a deficiency is noted. The equipment should be inspected in accordance with the minimum inspection guidelines annually. 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 to have an AAADM certified inspector perform an AAADM inspection and placing a valid inspection sticker below the safety information label prior to placing the equipment into operation.

BEA Contact



Do not leave problems unresolved. If a satisfactory solution cannot be achieved after troubleshooting a problem, please call BEA, Inc. If you must wait for the following workday to call BEA, 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.

Our Service Technicians can be called 24 hours a day, 7 days a week. For more information visit www.beasensors.com.

For email support contact us at: Tech_Services@beainc.com			
Phone: 1-800-523-2462		Fax: 1-888-523-2462	
After Normal Business Hours			
West / Mexico 1-888-419-2564	Central 1-800-407-4545	AK, MI, WI, TX, Canada 1-866-836-1863	East 1-866-249-7937