

ADSA - TECHNICAL BULLETIN 17

ESPE Hinge – Pivot area Hazardous zone: Site Testing procedure

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This test is to check the **connection, detection zone** and **continued operation** of the safety system for this area. ADSA cannot verify and endorse the control measure. These sensors must be certified by an Approved/Notified body and explicitly installed to manufacturer's instructions. ADSA are outlining advice for onsite professional and non-professional testing. This is not ADSA ITT (Initial Type Testing)

The ADSA Hinge ESPE test body should be used as described below. The objective of the ESPE Test Body is to ensure safer testing methods do not create hazards for or are influenced by the tester.

A test body should be used, this is divided into 3 section, one section of 8mm diameter 75mm (finger section for technician's test only) and 2 sections 20mm diameter x 100mm long, the hand section and a user hold section, colours below are for indicative reference only.



Test method for Authorised Technician

The test body should be inserted in all areas to be protected; We recommend at least three heights should be checked, top, middle and bottom. When carrying out the test, the test body must be held and at the angle that an arm's length, this will replicate a person placing their hand/fingers within the hazardous area (See example fig 1). The test must be repeated from both inside and outside the door if a person can trap their fingers i.e. if a person can stand near the hinge and the field test 8mm section can be inserted into the hinge area. If the door can be manually used when in normal operation, at least one test on each leaf should be carried out after the door has been manually pushed open.

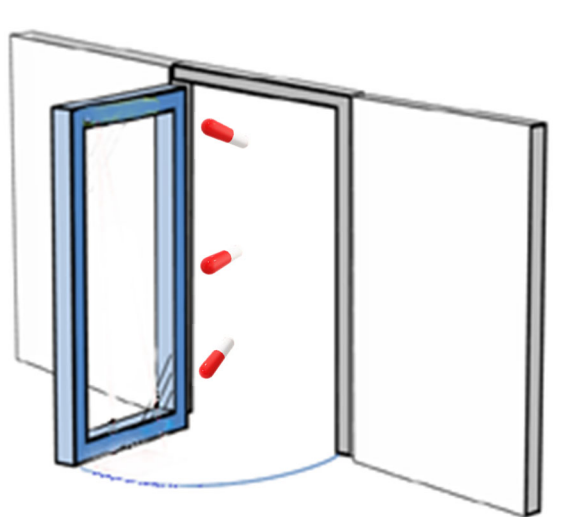


Fig 1

The test has deemed to be a fail, if all adjustment to the sensor have been exhausted, the test body can be trapped within any area of the defined hazard zone.

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Test method for the occupier

The above test only needs to be carried out once per door leaf, a test box of 700x300x200mm should be used. **Do not place a finger in the danger area to carry out this test.** With the door closed the box should be placed against the door at the area to be protected, it should be on its side, so it is 300mm above the floor with the 700mm length at right angles to the entrance. See fig 2 and fig 3 below. The door should be activated, the door should not close to a position that a finger could be trapped. If the door can be pushed or pulled open manually, the test should also be completed with this manual operation. If the test fails or if you are in any doubt about the safety, please put the door out of use and contact your system or service supplier



fig 2

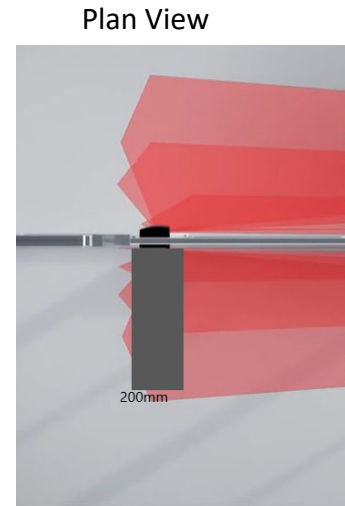


fig 3

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