
BS 7273-4: Actuation of release mechanisms for doors

BS 7273-4 concerns the interface (critical signal path) between fire detection and fire alarm systems with forms of door hardware, including devices to hold open self-closing fire doors.

The critical signal path is the connection between the CIE and the fire door retainer. If the connection is compromised, the fire door retainer must fail-to-safe. It is important to note that for acoustically actuated systems fire alarm sounder circuits are not deemed to be part of the critical signal path. A combination of categories can be used throughout a building. There are three categories of actuation:

Category A

- Fail-to-safe when 12 specified faults or disablements on the fire system occurs.
Dorgard X when linked to System X
Hardwired complies with this category.

Category B

- Fail-to-safe only when critical path wiring faults occur or when there is power loss to fire door retainer, Dorgard and Freedor complies with this category.

Category C

- As category B, but interface via another system. Dorgard X when linked to System X Acoustic meets this requirements.

