

# Safety Warning Notice No 3

## Hold-to-Run

### Introduction

Hold to run, or dead man control as it is alternatively referred to, is the simplest means of providing safety on automated doors and gates. The reference document that describes its use as a control measure for crush, impact, draw in and shearing hazards is EN 12453. EN 12453 was published in 2001 and is referenced by the existing harmonised product standard for safety in use of powered doors and gates, EN 13241-1.

EN 12453 sets out the conditions for use of hold-to-run in section 5.1.1.4 as follows:

- **The hold-to-run control shall be the only active control device**
- **The door/gate shall only move when the control is activated**
- **On release of the control the door/gate must stop within 100mm and, furthermore, in the final 500mm of closing the door/gate must stop within 50mm on release**  
(If this is not achievable, then a deformable edge may be employed that limits the resultant force to less than 150N)
- **The speed of the leading edge must be limited to no more than 0.5m per second**  
(In the case of opposing leaves, this equates to 0.25m per second each)
- **Activation of the door/gate by untrained persons shall be prevented**
- **Unintended activation of the controls shall be prevented**
- **The person controlling the door shall:**
  - be in full view of the door/gate
  - be in the immediate vicinity of the door/gate
  - not be in a hazardous location
- **A remote control device cannot be used unless it is capable of preventing:**
  - activation out of sight or vicinity of the door/gate
  - activation of the door/gate from a hazardous location
  - unintended activation of the door/gate
  - activation by any other control device

Additionally, faults in the control device must not result in a dangerous condition and must fail to a safe condition, for example, where devices suffer stuck or welded contacts or wiring faults.

Where systems are capable of switching to hold-to-run in the event of a safety system fault, care must be taken to ensure that the above conditions are complied with when the switch over has occurred.

In practice, this means that hold to run controls will be by means of either key switch or buttons secured by a key switch unless there is no possibility of untrained persons accessing the door controls. The control will be the only control active at any one time. It will be permanently located in a safe location in full view of the door. All authorised users will have been trained in its safe use. The speed of the leading edge will be within limits and will stop within the specified distances on release of the activation control.

Hold to run control is not suitable where significant hazards are out of view of the operator, for instance, the shear and draw in hazards on the far side of a full clad or boarded sliding gate.

It is unlikely that a radio control key fob can achieve these requirements; the UK notified body authorised for testing doors and gates in relation to EN 13241-1 has confirmed this position.



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