



**EULESS FIRE DEPARTMENT
FIRE MARSHAL'S OFFICE**

EFD-FMO 23-3

**INFORMATION LINE:
*Building and Security Control Systems
Egress Control Devices
Revision 7/2016***

Fire Chief Wes Rhodes Fire Marshal Paul Smith

2015 International
Fire & Building Code
as Amended

NFPA Standards
Adopted

SCOPE

This policy outlines the provisions for placing special security control devices on entry and exit doors, thereby creating a controlled ingress and egress of a person or persons within a building, room or area who may or may not have knowledge of such systems and its control features, devices or function or who may or may not have access to its entry or exit codes, keys or cards.

This document does not address delayed egress doors as outlined in Section 1010.1.9.7 of the 2015 International Fire Code.

PERMIT:

Prior to the installation of any Egress-Control device or system, a permit must be issued by the Fire Marshal. To obtain a permit, a minimum of three (3) sets of prints and/or specifications shall be submitted to the Fire Marshal's Office providing the details of the system, its devices and method of operation.

CODE REQUIREMENTS:

"1010.1.9.8 Sensor release of electrically locked egress doors. The electric locks on sensor-released doors located in the means of egress in buildings with an occupancy in Group A, B, E, I-1, I-2, I-4, M, R-1 or R-2 and entrance doors to tenant spaces in occupancies in Group A, B, E, I-1, I-2, I-4, M, R-1 or R-2 are permitted where installed and operated in accordance with all of the following criteria:

1. The sensor shall be installed on the egress side arranged to detect an occupant approaching the doors. The doors shall be arranged to unlock by a signal from or loss of power to the sensor.
2. Loss of power to that part of the access control system which locks the doors shall automatically unlock the doors.
3. The doors shall be arranged to unlock from an approved unlocking device. When operated, the unlocking device shall result in direct interruption of power to the lock, independent of other electronics, and the doors shall remain unlocked for not less than 30 seconds. A push to exit button is not permitted on an exit door installed after January, 2012. A touch bar or other approved method to provide a direct interruption of power to the lock is required. Push to exit button configurations that were installed in compliance with the codes in place prior to January 2012 are permitted to remain when approved by

the fire code official provided they are maintained in compliance with the codes in effect when they were installed.

4. Activation of the building fire alarm system shall automatically unlock the doors, and the doors shall remain unlocked until the fire alarm system has been reset.

5. Activation of the building automatic sprinkler or fire detection system, where provided, shall automatically unlock the doors. The doors shall remain unlocked until the fire alarm system has been reset.

6. The door locking system units shall be listed in accordance with UL 294.

7. If a full building smoke detection system is not provided, approved smoke detectors shall be provided on both the access and egress sides of doors and at a location approved by the fire code official in accordance with NFPA 72. Actuation of a smoke detector shall automatically unlock the door.”

8. When required by the fire code official, A Knox key switch or an approved toggle switch located inside a Knox key box must be installed at an approved location to permit an emergency override of any magnetic locking device system.

“1010.1.9.9 Electromagnetically locked egress doors. Doors in the means of egress in buildings with an occupancy in Group A, B, E, I-1, I-2, I-4, M, R-1 or R-2 shall be permitted to be locked with an electromagnetic locking system where equipped with hardware that incorporates a built in switch and where installed and operated in accordance with all of the following:

1. The hardware that is affixed to the door leaf has an obvious method of operation that is readily operated under all lighting conditions.

2. The hardware is capable of being operated with one hand.

3. Operation of the hardware directly interrupts the power to the electromagnetic lock and unlocks the door immediately.

4. Loss of power to the locking system immediately unlocks the door.

5. Where panic or fire exit hardware is required by Section 1010.1.10, operation of the panic or fire exit hardware also releases the electromagnetic lock.

6. The locking system units shall be listed in accordance with UL 294.

7. If a full building smoke detection system is not provided, approved smoke detectors shall be provided, when required by the fire code official, on both the access and egress sides of doors and as a location approved by the fire code official in accordance with NFPA 72. Actuation of a smoke detector shall automatically unlock the door.

8. When required by the fire code official. A Knox key switch or an approved toggle switch located inside a Knox key box must be installed at an approved location to permit an emergency override of any magnetic locking device system.