

3.10.12 System to monitor and prevent automatic operation of passenger and freight elevators with faulty door contact circuits.

All automatic passenger and freight elevators shall comply with this section by January 1, 2020. Means shall be provided to monitor the position of power-operated car doors that are mechanically coupled with the landing doors or power-operated car doors with manually operated swing-type hall doors, while the car is in the landing zone, in order

(a) to prevent the operation of the car if the car door is not closed (see Section 3.4.2(c) of ASME A17.3), regardless whether the portion of the circuits incorporating the car-door contact or the interlock contact of the landing door coupled with car door, or both, are closed or open, except as permitted under any of the following conditions:

(1) by a car-leveling or truck-leveling device

(2) when a hoistway access switch is operated

(3) when the top-of-car inspection operation utilizing a car door by-pass or hoistway-door bypass switch is activated

(4) when on any mode of inspection operation; and

(b) to prevent, except as permitted by inspection operation, the power closing of the doors if the car door is fully open and any of the following conditions exist:

(1) the car-door contact is closed or the portion of the circuit, incorporating this contact is bypassed;

(2) the interlock contact of the landing door that is coupled to the opened car door is closed or the portion of the circuit, incorporating this contact is bypassed, except when operating during Firefighters' Service Phase II;

Exception: For swing-type door operation, the locking (secondary) contacts shall be monitored.

(3) the car-door contact and the interlock contact of the door that is coupled to the opened car door are closed, or the portions of the circuits incorporating these contacts are bypassed;

Exception: For swing-type door operation, the locking (secondary) contacts shall be monitored.

Design and/or controller modifications shall be approved by the controller manufacturer or a registered design professional. Notwithstanding any inconsistent provision of Chapter 1 of Title 28 of the Administrative Code, the work required to comply with this section may not be performed without a permit from the department.