



Ontario Building Code Compliant Door Activation Switches

A Practical Guide for Equipment Specifiers and Installers

© 2017 Camden Door Controls



Introduction

As an industry leading manufacturer of control, activation, annunciation and locking products that serve the accessibility needs of persons with disabilities, Camden Door Control is committed to providing new product and application guides that address the most current building code requirements.

This guide has been created to specifically address the latest requirements of the Ontario Building Code (OBC), effective January 1, 2015 - in regards to the changing requirements for door activation switches.

Please note that this guide does not include detailed information regarding new OBC requirements beyond the scope of door activation switches, particularly new requirements for emergency call systems in universal and barrier free restrooms. (See document number: #4082A006R1)

Amendment to 2012 Ontario Building Code

Ontario Regulation 368/13 was filed to amend the 2012 Building Code, and is effective January 1, 2015. The amended requirements are designed to substantially enhance accessibility in newly constructed buildings as well as existing buildings that are to be extensively renovated.

Renovation projects provide opportunities for enhanced accessibility in existing buildings. Currently, accessibility requirements in Ontario's Building Code only apply to extensive renovations undertaken in suites over 300 square metres in building area, and located on an accessible floor level - i.e., on the main floor of a building or on a floor with elevator access. New amendments set out basic accessibility features that must be included in extensive renovations undertaken in smaller suites, or suites located on a floor level that is not fully accessible.

OBC – Regulation 368/13 Extract and Design Guide

3.8.3.3 Doorways and Doors

Sentences 3.8.3.3. (3), (4), (5) and (6) of Division B of the Regulation are revoked and the following substituted:

(3) Door opening devices that are the only means of operation shall:

(a) be designed to be operable using a closed fist, and

Camden Design Guide

This new code requirement now excludes many types of door activation switches from use on barrier-free applications.

The intent of this provision, together with other provisions (below) clearly mandates the use of push plate and touchless switches exclusively for compliance to the code.



(b) be mounted not less than 35 1/2" (900 mm) and not more than 43 1/2" (1100 mm) above the finished floor.

Camden Design Guide

A switch is required to be installed between a minimum height of 35 1/2" (900 mm) and a maximum height of 43 1/2" (1100 mm) above the floor. (In Group A, Group B, Division 2 or 3, Group C, Group D or Group E occupancies.)

(5) Sentences 3.8.3.3.(16) and (17) of Division B of the Regulation are revoked and the following substituted:

(17) Except where a proximity scanning device is installed in conformance with Sentence (18), the control for a power door operator required by Sentence (4), (5) or (6) shall:

(a) have a face dimension of not less than,

(i) 6" (150 mm) in diameter where the control is circular, or

Camden Design Guide

This code amendment now requires round switches to be a minimum of 6" (150 mm) in diameter. Other push plate switches commonly used in the past, such as 4 1/2" (114 mm) round, are no longer acceptable. Camden CM-60 Series push plate switches meet this requirement and are available with a wide range of graphics and architectural finishes.



(ii) 2" (50 mm) by 4" (100 mm) where the control is rectangular,

Camden Design Guide

This code amendment now requires rectangular switches to be a minimum of 2" (50 mm) wide x 4" (100 mm) tall. Other switches used in the past, such as 1 3/4" (45 mm) wide jamb switches, are no longer acceptable.

Select:

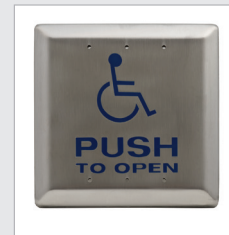
CM-35N 4-1/2" x 2" face plate, for mounting on jamb width box or frames

CM-35 4-1/2" x 2" face plate, for mounting on single gang box

CM-45 4-1/2" x 4-1/2" face plate, (concealed screws) for mounting on single or double gang box

CM-46 4-1/2" x 4-1/2" face plate, (exposed screws) for mounting on single or double gang box

All Camden push plate switches are available with a wide range of graphics and architectural finishes





(b) be operable using a closed fist,

Camden Design Guide

As stated above, the new code requirement clearly demands the use of push plate and touchless switches exclusively for compliant installations.

(c) be located so that,

(i) its centre is located not less than 35 1/2" (900 mm) and not more than 43 1/2" (1100 mm) from the finished floor or ground, or

Camden Design Guide

A switch is required to be installed between a minimum height of 35 1/2" (900 mm) and a maximum height of 43 1/2" (1100 mm) above the floor. We recommend that switch height be measured to the center of the switch. This amendment now defines that switch height will be the same for all building occupancies.

(ii) (Column Switch)

it extends from not more than 8" (200 mm) to not less than 35 1/2" (900 mm) above the finished floor or ground,

Camden Design Guide

A single switch cannot be higher than 8" (200 mm) and not lower than 35 1/2" (900 mm) above the floor. This sentence recognizes the installation of 36" (915 mm) tall push plate switches, which also have a width of not less than 2" (50 mm)

Camden CM-75 Series Column™ push plate switches meet this requirement and are available with a wide range of graphics and architectural finishes.



(d) be located not less than 23 1/2" (600 mm) and not more than 59" (1500 mm) beyond the door swing where the door opens towards the control,

Camden Design Guide

A switch cannot be closer than 23 1/2" (600 mm) and not more than 59" (1500 mm) from the side of the door and must be mounted to the side of the door latch (not on the side of the door hinge).

This sentence clearly eliminates the common practice of mounting narrow, push plate switches directly on door frames.

If a suitably spaced hollow metal window or structural frame is the best location to mount a larger push plate switch, we recommend the use of a CM-45 (Concealed Screws) or CM-46 (Exposed Screws) Series push plate switch and CM-44 stainless steel off-set mounting box. This box can be easily mounted on a jamb width frame, while allowing the switch to project beyond the frame, and also provide an attractive back to the switch, if visible.



- (e) be located in a clearly visible position, and

Camden Design Guide

This sentence is intended to catch the rare projects where there is an architectural obstruction that prevents a clear line of sight to the switch, when approaching the door from any direction. If an alternative location (that also meets other code requirements) is not immediately apparent, it is always best to seek the direction of your local AHJ before installing the switch.

- (f) contain a sign incorporating the International Symbol of Access.

Camden Design Guide

This sentence clearly eliminates the common practice of installing activation switches with text only graphics. It is permissible under the code to install a switch with a wheelchair symbol and text, or with a wheelchair symbol only. Camden offers a wide range of stock switch graphics, with wheelchair symbol, and also offers switches with custom graphics upon request.



3.8.3.12. Universal Washrooms

- (2) A universal washroom shall have,

- (a) an emergency call system that consists of audible and visual signal devices inside and outside of the washroom that are activated by a control device inside the washroom, and
- (b) an emergency sign that contains the words “IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE” in letters at least 1” (25 mm) high with a 0.2” (5 mm) stroke and that is posted above the emergency button.

Camden Design Guide

To the best of our knowledge, Ontario is the first jurisdiction in North America to require the installation of an emergency call system in universal washrooms.

Camden has developed a number of new products specifically for this application and has packaged the products in economical and easy to order CX-WEC Series kits.

For a complete summary of code requirements, equipment specifications, system designs and point-to-point wiring diagrams, please reference Camden’s ‘Code Compliant Emergency Call Systems for Universal & Barrier Free Restroom’ Guide (#4082A006R1)

For a free copy of this guide, please download from our web site www.camdencontrols.com, or contact our customer service department.



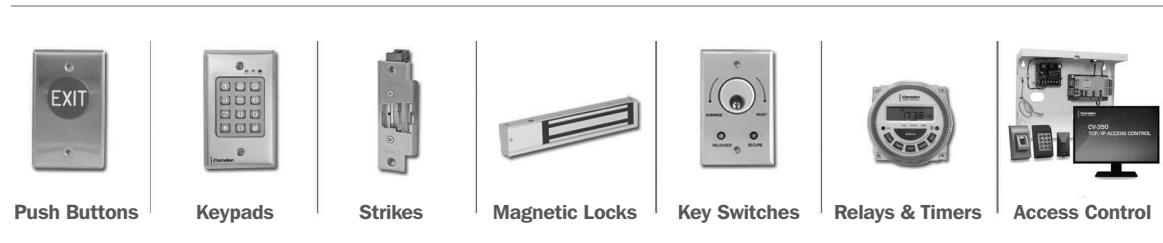


About Camden Controls

Camden Door Controls offers the most extensive range of high quality door activating, locking, and control products to support any automatic door operator or access control application. We are ISO 9001:2008 registered, with a 20,000 ft. manufacturing facility, and an extensive network of stocking distributors across North America. Our 'Quick-Ship' warehouses in San Diego CA. and Charlotte NC, and main manufacturing facility in Toronto enable Camden to provide customers 5 day ground shipping to any location within Canada or the continental U.S.!

Liability Statement

Camden Door Controls has created this guide to serve as a general orientation to the topic and assumes no liability whatsoever for errors or omissions in the information contained herein, nor in how this information is understood or interpreted. In all cases, the reader is directed to consult the applicable codes, standards and laws that are in force within the country, state and municipality of their installation, and are further advised to submit their interpretation of the installation requirements to their local authority having jurisdiction (AHJ) prior to purchasing or installing equipment.



Push Buttons

Keypads

Strikes

Magnetic Locks

Key Switches

Relays & Timers

Access Control



DISCOVER THE BEST IN DOOR
ACTIVATING AND LOCKING PRODUCTS!

www.camdencontrols.com
Toll Free: 1.877.226.3369

