

Features

- Single action models
- Breakglass type double action models
- Institutional option:
 - Key operated only
- Pull lever protrudes when alarmed
- Tamper resistant reset key lock:
 - keyed same as fire alarm cabinet
- Pre-signal and annunciator contact options
- Surface or semi-flush mounting
- Flush mounting option
- Two stage alarm
- English, French, or Bilingual

Operation

Single Action Stations require a firm downward pull to activate the alarm switch. Completing the action breaks an internal plastic break-rod (visible below the pull lever). The pull lever latches into the alarm position and remains extended out of the cover to provide a visible indication of which station was alarmed.

Double Action Stations (Breakglass) require the operator to strike the front mounted hammer to break the glass and expose the recessed pull lever. The pull lever then operates as a single action station.

Single action stations can be fitted with an institutional cover kit.

Institutional Stations are designed to activate by key operation only. This allows access for manual alarms to be limited to authorized personnel. Operation requires key insertion and opening of the station cover.

Pre-signal option activates when the lever is pulled. General alarm initiation requires a key to activate a keyswitch located behind the pull lever.

Station Reset requires use of a key to reset the pull station lever and deactivate the alarm switch. If the break-rod is used, it must be replaced.

Testing requires physical activation of the pull lever (except for institutional stations).

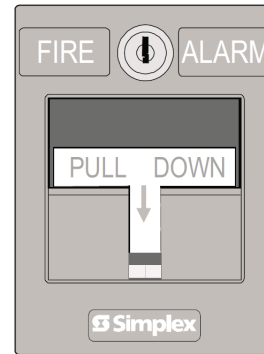


Figure 1: Single action station

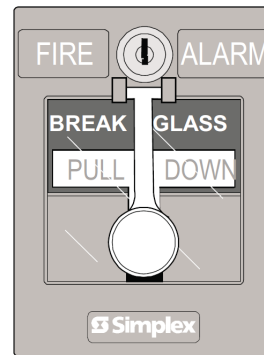


Figure 2: Double action station (Breakglass)



Figure 3: Single action station with institutional cover

Applications

According to the National Building Code, a manual pull station shall be installed in every floor area near every required exit. CAN/ULC-S524-M91 states that stations “shall be mounted not less than 1200 mm nor more than 1400 mm above the floor level...”. In addition, the National Fire Protection Association (NFPA), Bulletin number 72 (reference section 5-9), gives specific minimum requirements on this subject. When manual station coverage appears limited in any way, additional units should be installed. Stations should be mounted with the bottom of the station not less than 1.07 m (3.5 ft) or more than 1.52 m (5 ft) from the floor. Usually stations are mounted at the 1.37 m (4.5 ft) level. (In order to make buildings and facilities accessible to, and usable by the physically handicapped, some specifications may require that the station be installed not more than 1.07 m (3.5 ft) from the floor.)

Stations should be located in the normal path of exit, and distributed in the protected area so that they are unobstructed and readily accessible.

Stations should be provided on each floor to obtain a travel distance not more than 61 m (200 ft.) to the nearest station from any point in the building. One station should be provided for each floor where the maximum floor area is 930 m² (10,000 ft²) or more.

Construction. Covers and pull levers are constructed of chip resistant and dirt resistant, high impact Lexan polycarbonate. Covers are red with white lettering and pull levers are white with red lettering.

The 2099-9819 (Black) and 2099-9820 (Beige) are optional adapter kits designed to flush mount any one of the 2099 series stations.

Non-addressable manual station specification chart

Table 1: Single action model specifications

Single action models	Actuator	Actuator Annun.	GA key	Single gang box depth mm (in.)
2099-9754C	N/O			38 (1.5)
2099-9288C	N/O		N/O	51 (2.0)
2099-9752C	NO:C/L		N/O	51 (2.0)
2099-9101C	N/O	N/O		51 (2.0)
2099-9107C	N/O	N/O	N/O	76 (3.0)
2099-9110C	N/O:C/L	N/O	N/O	51 (2.0)
2099-9102C	N/O	N/C		51 (2.0)
A2099-9109C	N/O	N/C	N/O	76 (3.0)
2099-9111C	N/O:C/L	N/C	N/O	51 (2.0)

Table 2: Double action breakglass model specification

Double action models - breakglass	Actuator	Actuator Annun.	GA key	Single gang box depth mm (in.)
2099-9103C	N/O			38 (1.5)
2099-9336C	N/O		N/O	51 (2.0)
2099-9772C	N/O:C/L		N/O	51 (2.0)
2099-9104C	N/O	N/O		51 (2.0)
2099-9108C	N/O	N/O	N/O	76 (3.0)
2099-9118C	N/O:C/L	N/O	N/O	51 (2.0)
2099-9105C	N/O	N/C		51 (2.0)
2099-9117C	N/O	N/C	N/O	76 (3.0)
2099-9119C	N/O:C/L	N/C	N/O	51 (2.0)

N/O = Normally Open Contact — N/C = Normally Closed Contact — C/L = Current Limited when activated

MODELS SHOWN ARE ENGLISH LANGUAGE. ADD 'F' FOR FRENCH - 'B' FOR BILINGUAL e.g. 2099-9754C, 2099-9754CF, 2099-9754CB

Table 3: Accessories

Model	Description
2099-9803	Replacement breakglass (standard, English)
2099-9804	Replacement break-rod
2099-9819	Flush adapter kit, black (refer Figure 6)
2099-9820	Flush adapter kit, beige (refer to Figure 6)
2099-9822	Replacement retaining clip for breakglass
2099-9828	Institutional cover kit
2975-9178	Red, surface mount box, sheet metal, 5.1875 in. H x 4 in. W x 2.1875 in. D (127 mm x 102 mm x 56 mm)
2975-9022	Red, cast aluminum surface mount box, 5 in. H x 3.875 in. W x 2.1875 in. D (127 mm x 98 mm x 56 mm)
12975-0001	Red, surface mount box, sheet metal, 5.1875 in. H x 4 in. W x 2.6875 in. D (127 mm x 102 mm x 68 mm)
252-019	B key for manual station reset

Mounting information

Refer to installation instructions (PER-21-502CAN) for additional information

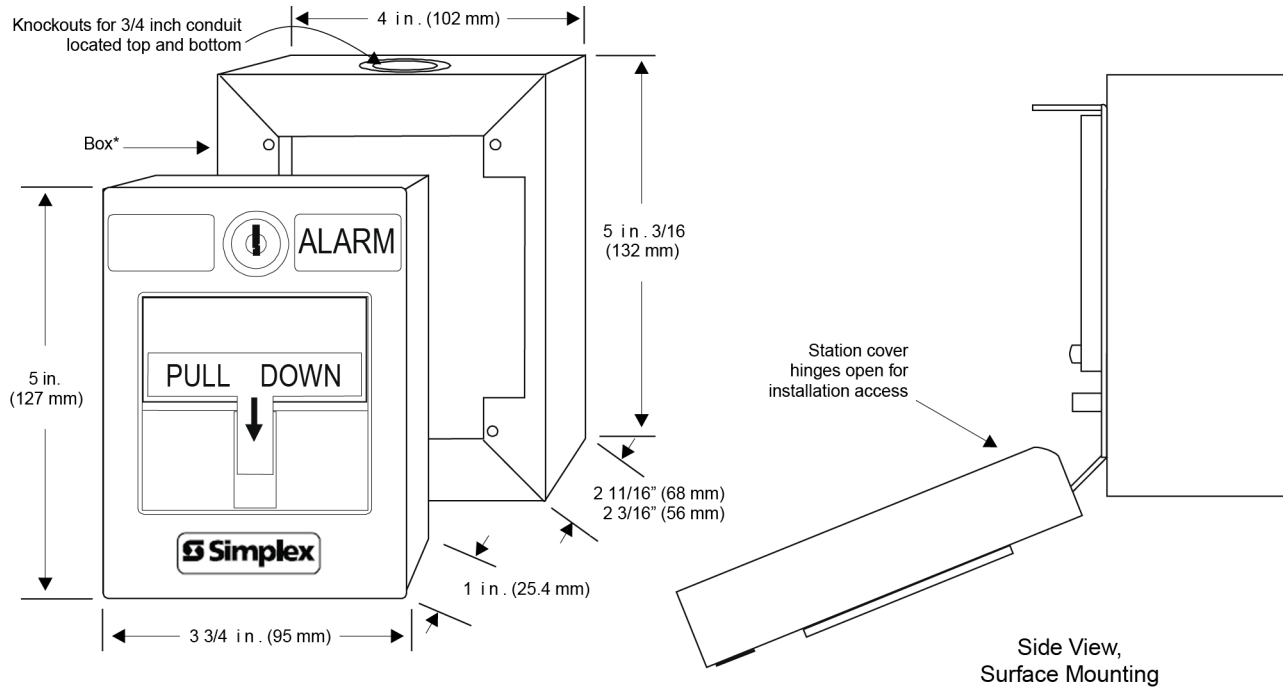


Figure 4: Surface mounting

*12975-0001 or 2975-9178 box

4 in. (102 mm) square box, 2 1/8 in. (54 mm) minimum depth RACO #231 or equal (supplied separately)

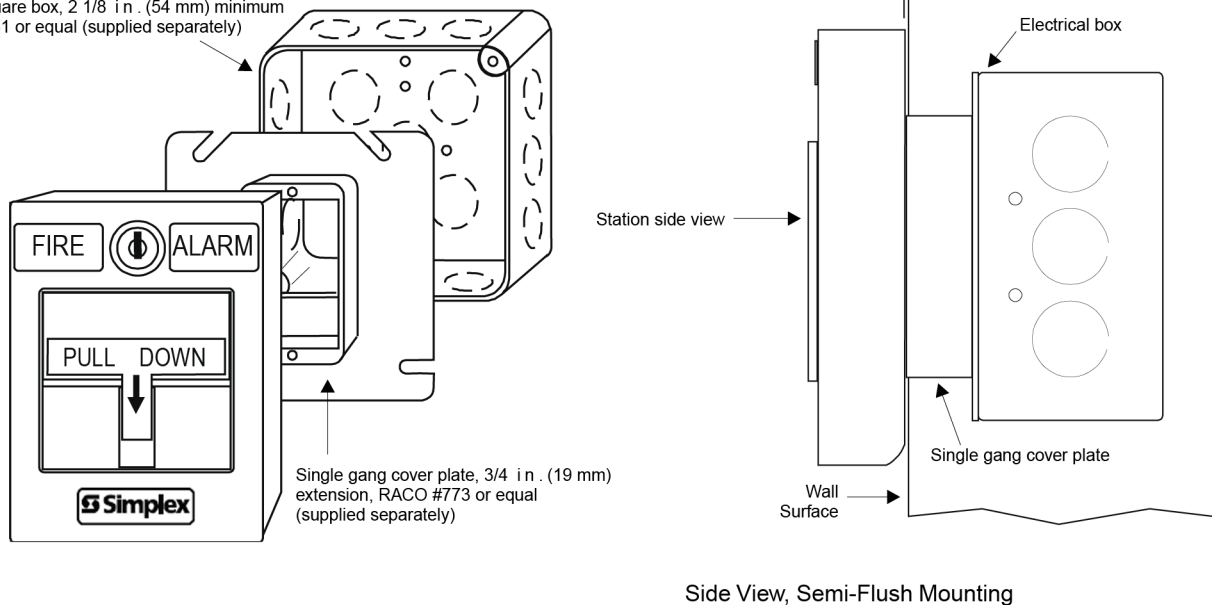


Figure 5: SEMI-FLUSH MOUNTING, 4" BOX

Note: Refer to selection chart for requirements.

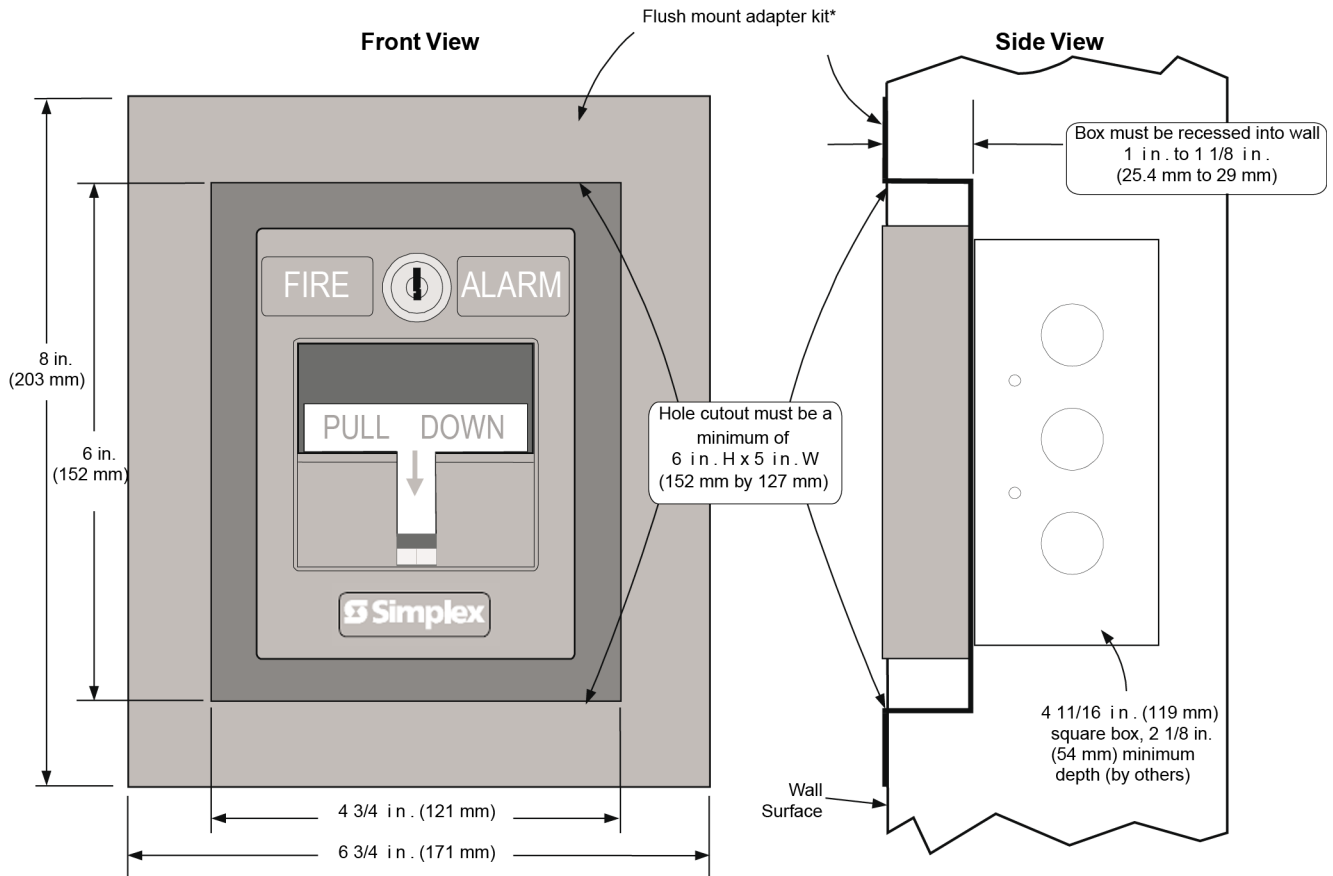


Figure 6: FLUSH MOUNTING REFERENCE INFORMATION

*Black adapter kit 2099-9819; beige adapter kit 2099-9820