



Emergency door release devices

‘27.11 Break glass emergency door exit release devices (often green in colour) on communal external doors that provide an important aid to egress in the event of an emergency have proven to be abused rendering some buildings insecure for long periods of time. **SBD recommends vandal resistant stainless steel self-resetting emergency exit systems are installed as an alternative.** The installation and system type must be in full compliance with the Building Regulations and achieve final ‘signoff’ by local Building Control.’

Description

The Urmet RTE14 (surface mount) and RTE15 (flush mount) Emergency exit switches meet the above Secure by design requirement.

The devices are suitable for use with fail safe releases and maglocks. Not fail secure (fail locked) releases.

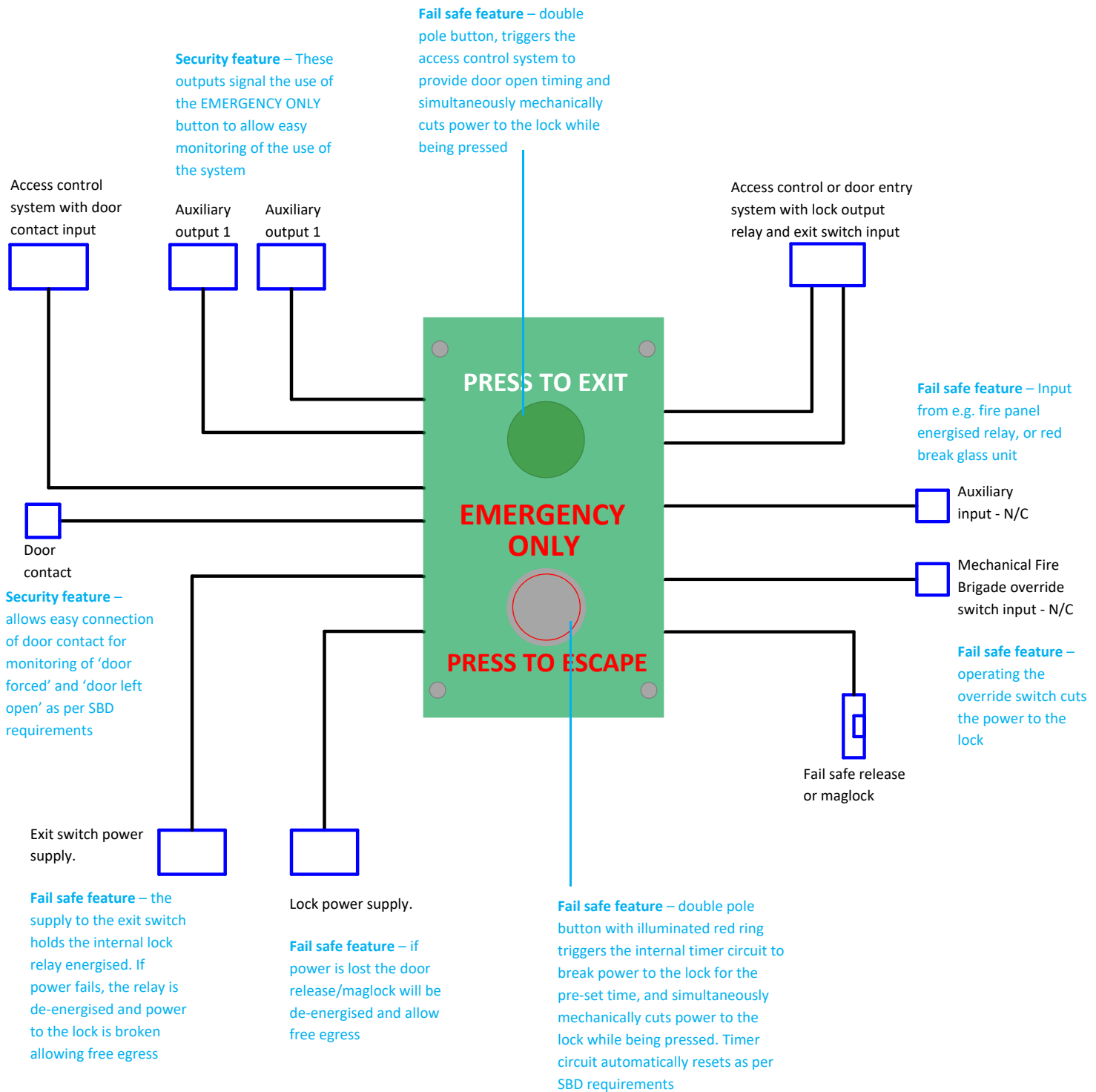
The **PRESS TO EXIT** button uses a normally open contact to trigger the access control or door entry system timing circuit, and also a normally closed contact which is connected in series with the cable supplying the release, meaning that if the access control or door entry system is offline, the power to the release will be mechanically cut and the door can always be opened.

The emergency illuminated **PRESS TO ESCAPE** button triggers the timing circuit within the device which in turn breaks the power to the release. After a pre-set period of time (1, 6, 12 or 24 minutes) the door will automatically re-lock.

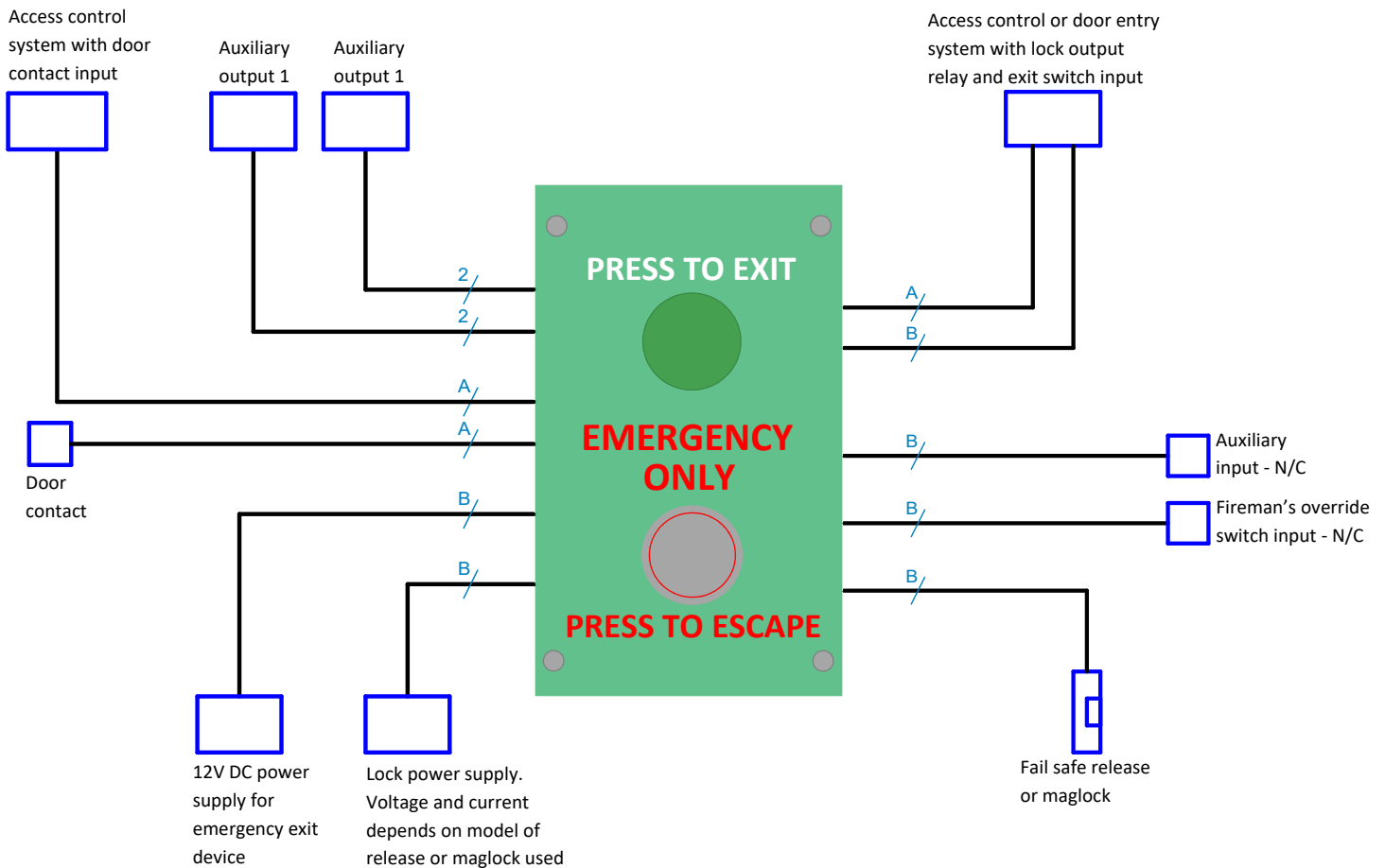
The **PRESS TO ESCAPE** button also mechanically breaks the power to the release making the device truly fail safe.

Technical features

The Emergency Exit System is designed to meet BS7273-4 Type A activation requirements, but using a timed automatic reset and not a mechanical reset.



Cabling requirements



A = Cat5e

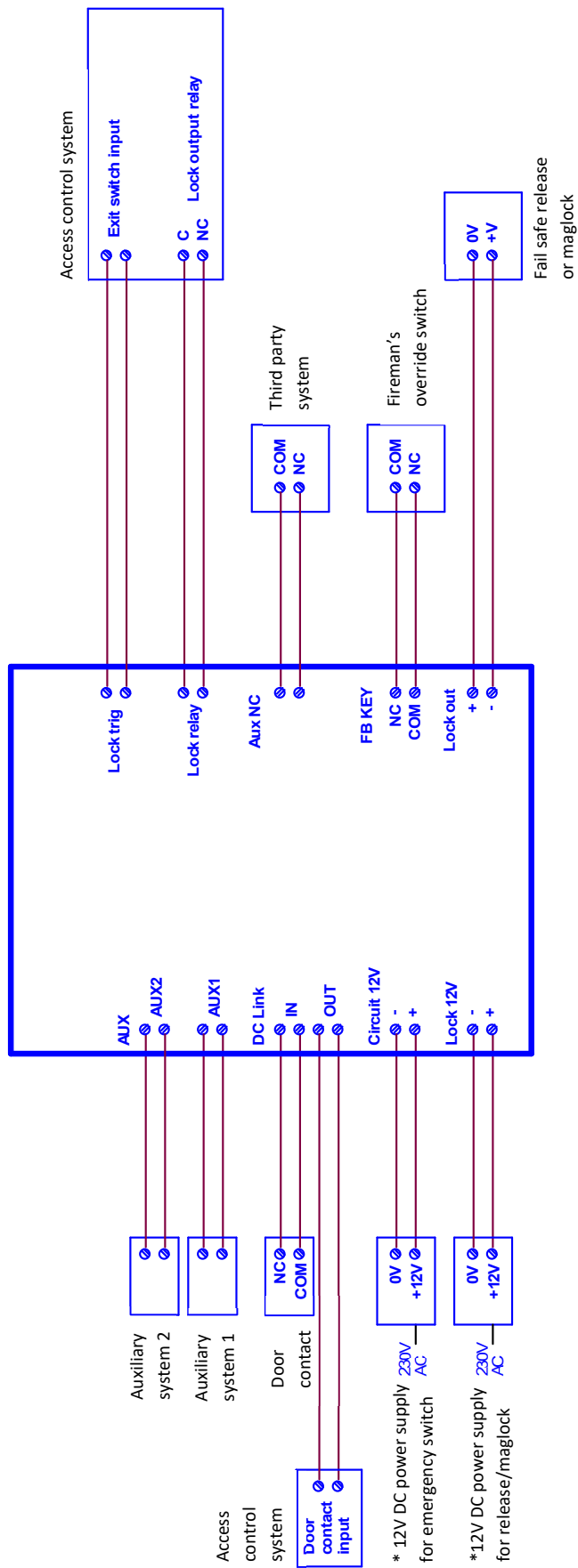
B = Lock supply cable

The type and size of cable to use depends on the distance from the release or maglock to the power supply and also the specification of the release (minimum voltage and maximum current).

As a general guide, a twin 1.0mm cable will power most fail safe releases and maglocks rated up to 1.5A up to 25 meters from the lock power supply, or most releases and maglocks rated at 0.5A up to 100 meters from the power supply.

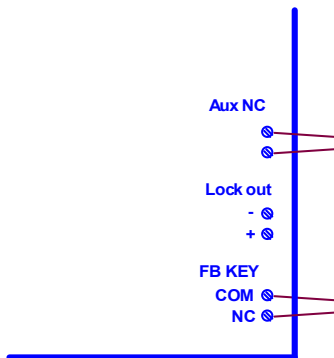
We recommend the use of a 4-core 'YY Control cable'. This allows for two additional cores for any door monitoring contact.

Connection diagram



*The same suitable power supply can be used for both if required

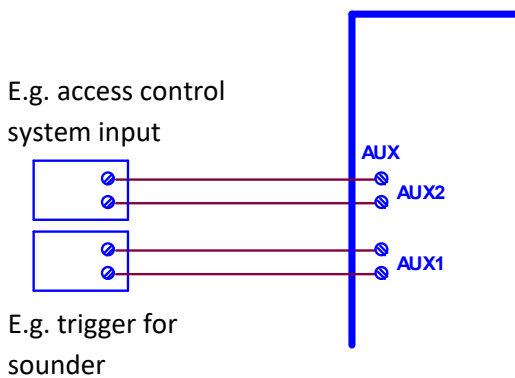
Additional inputs



The device is provided with an input for a Fireman's override switch and an input for any normally closed auxiliary devices or systems.

If these are not being used then the connections must be linked out.

Auxiliary outputs

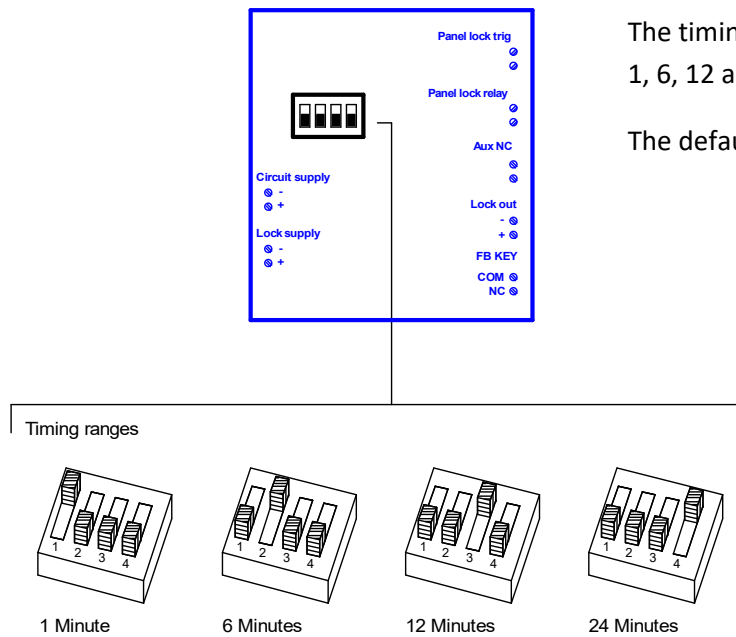


Two auxiliary outputs are provided.

They both signal the operation of the 'Emergency only' button and are momentary.

These outputs can be used for example to provide an input to an access control system for event monitoring, or could be used to trigger a sounder.

Timing ranges –

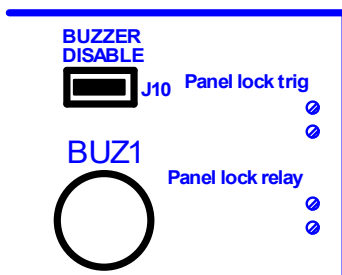


The timing ranges are approximately 1, 6, 12 and 24 minutes.

The default setting is 1 minute.

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Buzzer



A built in buzzer can be used to indicate that the release is not powered i.e. the door is open. The buzzer will sound all the time that power is *not* applied to the release.

This function is disabled by default. To enable the function, fit the jumper across the pins –



Buzzer enabled



Buzzer disabled

Commissioning the exit switches

In certain fault conditions the timing circuit for the PRESS TO ESCAPE button will not function. In this case the PRESS TO ESCAPE button will mechanically break the power to the release but *only while the button is being pressed*, meaning that as soon as the button is released the door will lock again.

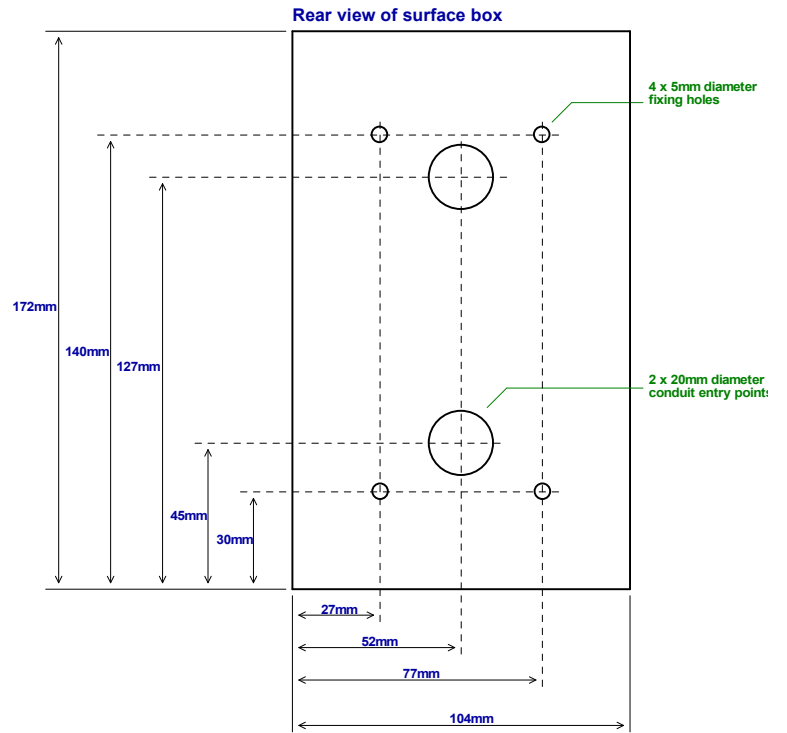
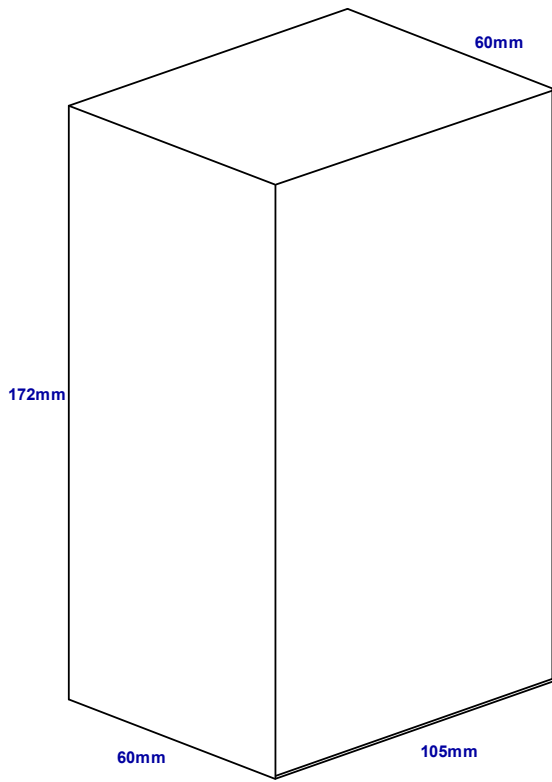
For this reason the device *must* be located in a position where it is possible to reach the door handle and operate the buttons *at the same time*.

If this is not possible then the installation is not safe.

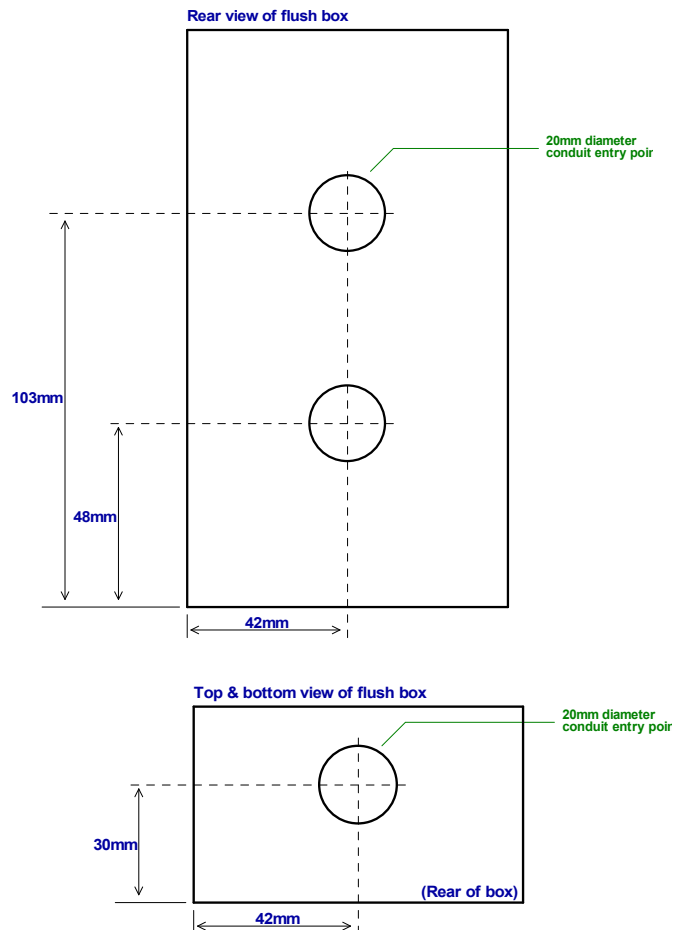
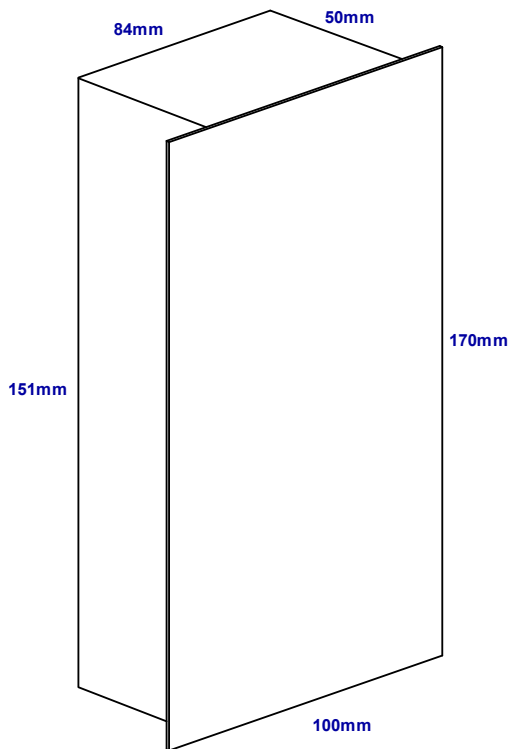
1. Switch off the dedicated lock power supply – the door must remain unlocked while the power supply is off. Switch the power supply back on.
2. Push the PRESS TO EXIT button – the door must remain open for the length of time set by the access control or door entry system.
3. Disconnect the **Panel lock trig** connections. Push and hold the PRESS TO EXIT button – the door must remain open as long as the PRESS TO EXIT button is held in. Re-connect the **Panel lock trig** connections.
4. With DIP switch 1 ON and DIPs 2, 3 and 4 OFF, push the PRESS TO ESCAPE button. The door must remain unlocked for 1 minute. Repeat the test for the remaining timing ranges (6, 12 and 24 minutes).
5. Disconnect the **Circuit supply** connections. Push and hold the PRESS TO ESCAPE button – the door must remain open as long as the PRESS TO ESCAPE button is held in. Re-connect the **Circuit supply** connections.

Dimensions

Surface version



Flush version





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