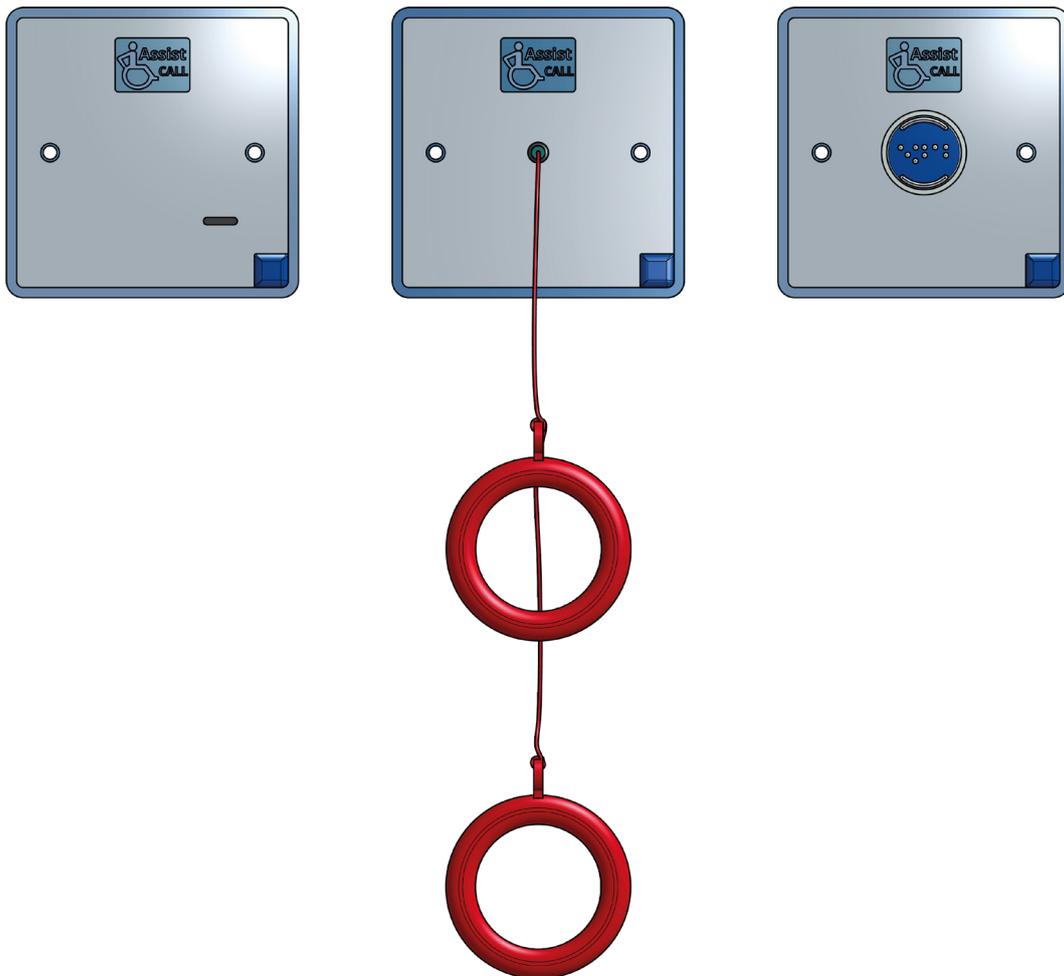




Assist Call WC Kit

Installation & User Guide



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Scope

The Crisis Assist Call WC Kit Installation & User Guide provides a comprehensive description of the Crisis Emergency Voice Communication System.

This guide introduces the Crisis Assist Call WC Kit features, technical specifications and gives an understanding of its components and their function. You will also find instructions on installing, configuration and testing.

This guide is for anyone involved with the design, maintenance and purchasing of a Crisis EVC system. It is assumed that anyone using this product has the knowledge and appropriate certification from local fire and electrical authorities.

Document Conventions

The following typographic conventions are used in this document:

Convention	Description
Bold	Used to denote: Emphasis.
<i>Italics</i>	Used to denote: References to other parts of this document or other documents.

The following icons are used in this document:

Convention	Description
	Recommended guideline: Advising to do so.
	Caution: Not appropriate to do so or; care taken to avoid danger or mistakes.

Contact Us

Telephone	+44 (0) 1329 835 024
Email	sales@eurofyre.co.uk technical@eurofyre.co.uk
Website	www.eurofyre.co.uk

Table Of Contents

1	Introduction	8
1.1	What is an Emergency Assistance Alarm?.....	8
1.2	Suitability.....	8
2	Product Overview	8
3	Design Guidelines	9
3.1	Ceiling Pull Cord Location.....	9
3.2	Overdoor Indicator Location.....	9
3.3	Cancel/Reset Point Location.....	9
4	Important Safety Information	10
4.1	Unpacking.....	10
5	Installation	11
5.1	Connection via an Crisis EVC Panel	11
5.2	Connection via an Crisis Type B Outstation	11
6	System Operation	12
6.1	Raising the Alarm Inside the WC	12
6.2	Indication Outside the WC	12
6.3	Acknowledging the Alarm.....	12
6.4	Resound Feature	12
6.5	Resetting the System.....	12
7	Maintenance	12
	Notes	13

1 Introduction

1.1 What is an Emergency Assistance Alarm?

An emergency assistance alarm is used by disabled people to summon assistance.

The system generally consists of a ceiling mounted pull cord, a cancel plate, and an overdoor indicator plate. These are connected back to an Assist Call controller or Crisis Master Station depending on the chosen configuration.

1.2 Suitability

An emergency assistance alarm must be provided to all accessible toilets, accessible bathrooms, accessible bedrooms, accessible showers and accessible changing areas.

The Assist Call system is designed to fully comply with BS8300:2011, emergency assistance alarms are called for in all new buildings other than dwellings in the following "Building Regulations Approved Document M:2010".

2 Product Overview

The Crisis Assist Call WC Kit is a 2 wire system consisting of a ceiling pull cord located near to the WC, cancel plate also located near to the WC and over door indicator plate located above the door outside of the WC.

The Crisis Assist Call WC Kit is intended to be utilised with a Crisis EVC Master Station, Crisis EVC Network Master Station, Crisis EVC Network Expander or a Crisis EVC Network Assist Call Master Station which should be located in a permanently staffed area.

Additional Assist Call devices can be connected to the circuit however this is dependent upon configuration, please see the installation section for exact details and recommended cabling of either one additional cancel plate or overdoor indicator and up to 5 additional ceiling pull cords. All Assist Call devices can be wired in any order so wiring runs can be kept to a minimum.

The Assist Call system wired from a Crisis EVC Master Station features a BS8300 "acknowledge" function, this requires that "visual and audible feedback should be provided to indicate that, when the alarm has been operated, the emergency assistance call has been acknowledged and is being actioned.



An indication that assistance is on its way will reassure those in distress.

All Assist Call devices utilise blue halo indication so that they will not confused with fire alarm devices.

3 Design Guidelines

Before designing an emergency assistance alarm the guidelines in BS8300:2009 and "Building Regulations Approved document M:2010" should be consulted first.

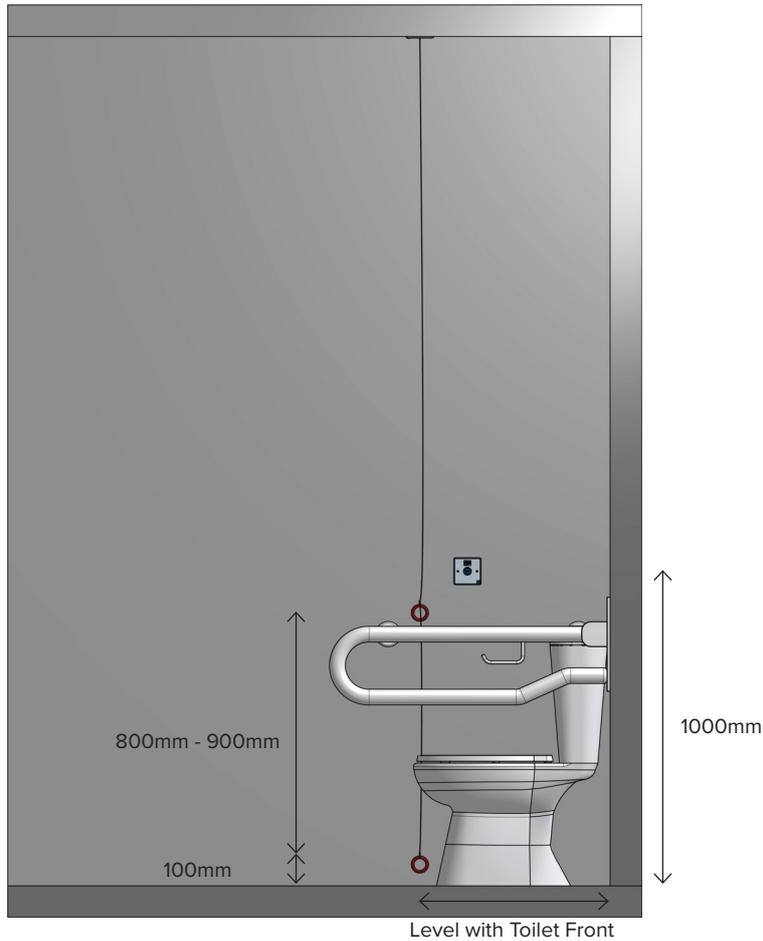


Figure 1: Crisis Assist Call Device Locations

3.1 Ceiling Pull Cord Location

The ceiling pull cord should be located ideally within the grab rail such that it is reachable from the WC and from the floor close to the WC ceiling pull cords should consist of 2 red bangles of 50mm diameter one set at a height of between 800mm and 1000mm and the other set at a height 100mm above the floor.

3.2 Overdoor Indicator Location

The overdoor indicator should be located so that it is easily seen and heard by those able to give assistance.

3.3 Cancel/Reset Point Location

The cancel point should be located such that it is reachable from the wheelchair, WC, tip up seat in a shower facility or bed within an accessible bedroom. The cancel point bottom edge should be between 800mm and 1000mm above the floor.

4 Important Safety Information

This Equipment must only be installed and maintained by a suitably skilled and competent person.

This Equipment is defined as Class 2 in EN60950 (Low Voltage Directive) and must be EARTHED.



	<p>Caution: Indoor Use Only</p> <p>Warning: Shock Hazard - Isolate Before Opening</p> <p>Warning: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE</p> <p>Warning: THIS UNIT MUST BE EARTHED</p> <p>Warning: NO USER SERVICEABLE PARTS</p>
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Anti-static handling guidelines

Make sure that electrostatic handling precautions are taken immediately before handling PCBs and other static sensitive components.

Before handling any static-sensitive items, operators should get rid of any electrostatic charge by touching a sound safety earth. Always handle PCBs by their sides and avoid touching any components.

4.1 Unpacking

Remove the equipment from its packing, and check the contents against the following list:

- Crisis Assist Call Pull Cord Plate
- Crisis Assist Call Over Door Plate
- Crisis Assist Call Cancel Plate
- Accessible WC Sticker
- Instruction Sticker (to be located within the WC).
- Installation & User Guide
- Accessory Pack:
 - 6 x Device 2 Part Terminals
 - 6 x Device Mounting Screws

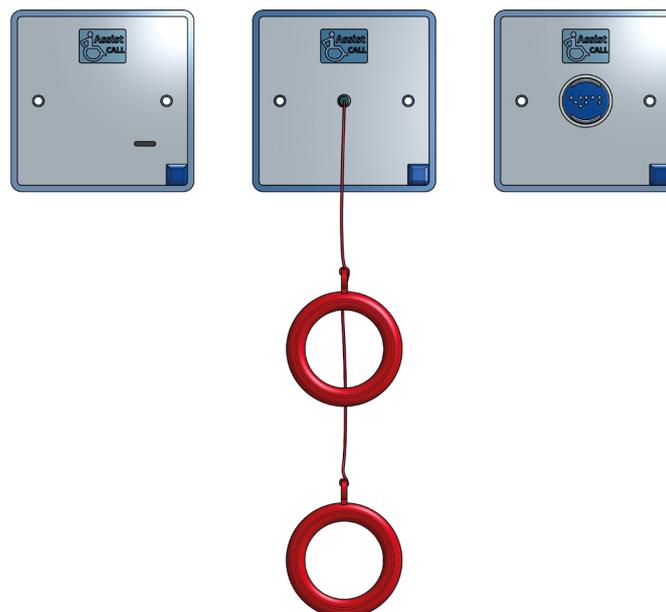


Figure 2: Crisis Assist Call WC Kit

5 Installation

The Crisis Assist Call WC device plates mount onto a 25mm UK single gang back box.

5.1 Connection via an Crisis EVC Panel

The devices are wired to the terminals marked 0 and +, the devices are polarity sensitive, however there are no in or out terminals and devices can be wired in any order. The cabling between the controller and the devices is 2 core 1 mm csa flex, wired in a radial circuit up to 150m length. The circuit is fully monitored for open and short circuit and a 10K EOL resistor should be fitted across the terminals in the last device.

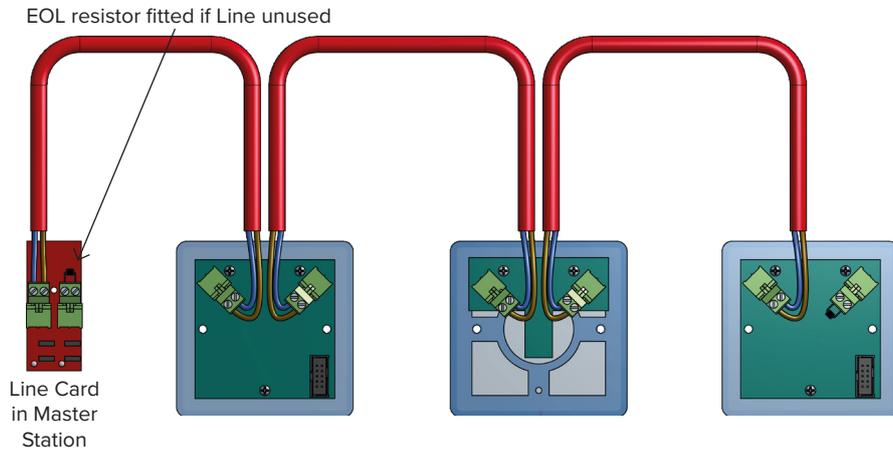


Figure 3: Crisis Assist Call WC Kit Wiring from EVC Panel

Additional assist call devices can be connected to the circuit of either one additional cancel plate or overdoor indicator and up to 5 additional ceiling pull cords.

All system wiring should be installed to meet the appropriate parts of BS 7671 (Wiring Regulations). Other national standards of installation should be adhered to where applicable.

Extra Low Voltage (ELV) Wiring: Always segregate low voltage wiring from the main wiring.

5.2 Connection via an Crisis Type B Outstation

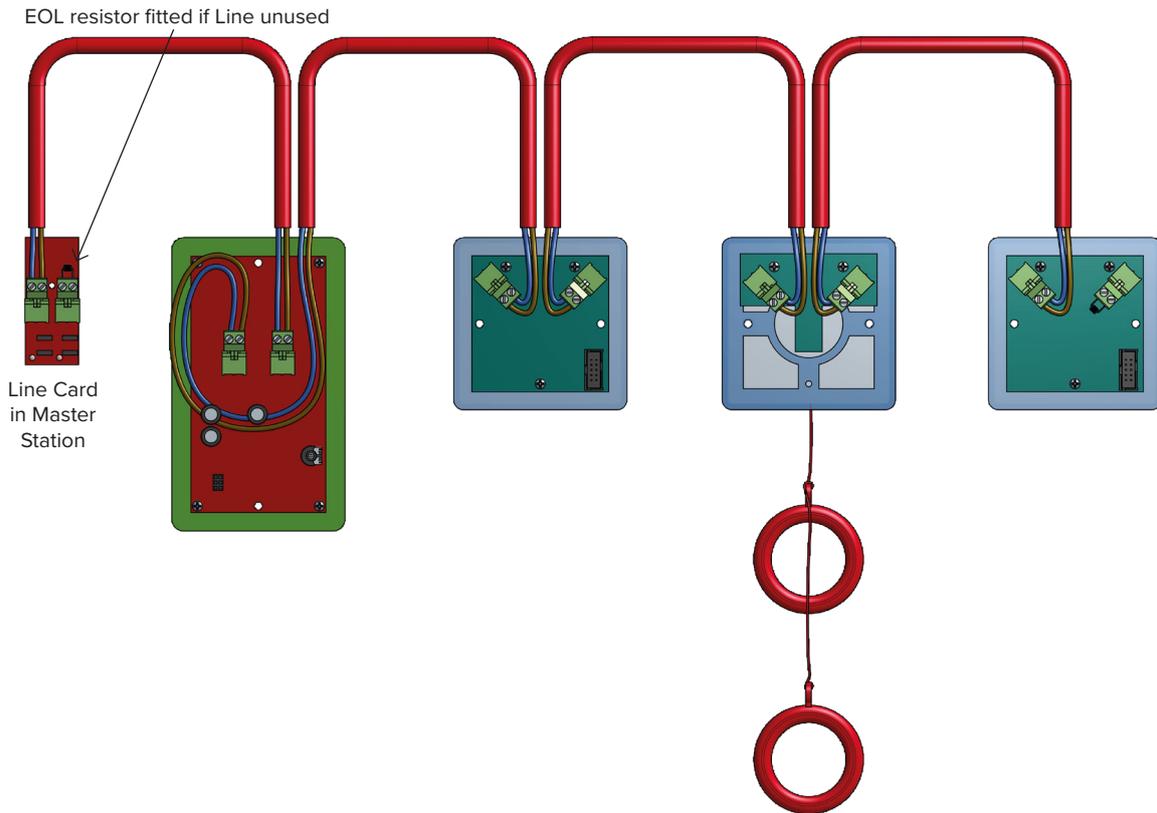


Figure 4: Crisis Assist Call WC Kit Wiring from Type B Outstation

	There is the facility to connect a Crisis Assist Call WC Kit to a Type B Outstation however please see below as the wiring details are different from those previously mentioned.
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The devices are wired to the terminals marked 0 and +, the devices are polarity sensitive, however there are no in or out terminals and devices can be wired in any order. The cabling between the controller and the devices is 2 core 1.5mm csa fire resistant cable to match that of the type B outstation circuit. The circuit is extended from the terminals marked EOL Out in the type B outstation.

The circuit is fully monitored for open and short circuit and a 10K EOL resistor should be fitted across the terminals in the last device.

Please note only additional pull cords can be added in this configuration up to 5.

All system wiring should be installed to meet the appropriate parts of BS 7671 (Wiring Regulations). Other national standards of installation should be adhered to where applicable.

Extra Low Voltage (ELV) Wiring: Always segregate low voltage wiring from the main wiring.

6 System Operation

6.1 Raising the Alarm Inside the WC

The person in distress raises the alarm by pulling on one of the red pull cord bangles, the blue indicator on the ceiling plate will indicate steady blue and the blue indicator flash and sounder will activate on the cancel plate.

6.2 Indication Outside the WC

The overdoor indicator plate will flash and sounder will activate to show the location of the alarm, the controller should be located within a permanently staffed area. The blue indicator will flash and the sounder will activate on the controller to alert staff of an alarm.

6.3 Acknowledging the Alarm

A member of staff acknowledges the alarm by pressing the button adjacent blue indicator on the controller, the blue indicator will change state from flashing to steady and the internal sounder will sound intermittently every 15 seconds. The ceiling pull cord indication will extinguish, the blue indicator on the cancel plate and the overdoor indicator changes state from flashing to steady with intermittent sounder operation every 15 seconds to confirm to the occupant that help is on the way.

6.4 Resound Feature

If the Crisis Assist Call alarm is not reset within 2 minutes of being acknowledged it will automatically resound causing the master station and all of the devices within the alarm circuit to flash and sound mentioned above.

6.5 Resetting the System

When the call has been attended to the alarm is reset by pressing the cancel button within the WC.

7 Maintenance

It is a requirement of BS 5839-9:2011 that a maintenance agreement be in place for the EVCS. The maintenance schedule should be as follows:

Frequency	Test
Monthly	Test the system monthly by operating a pull cord, acknowledge the call using the controller, check all indicators and reset from the cancel plate within the WC . Record these results in the site log.

Table 1: Maintenance

Notes

