FELIX Security Systems

FTA-02

WIRED DISABLE TOILET EMERGENCY CALL SYSTEM KIT



Product Feature

- Regulatory compliance system to be use in disable toilet (OKU)
- **Easy installation** - two wires system with detail wiring diagram provided
- Braille marked control buttons at the **Main Control Unit (MCU)**
- Built-in **Reset, Call Answered** and **Fault LED** indicators
- Internal Rechargeable Battery (back up 2-3 hours standby approx 15-20 mins continuous alarm

The FTA-02 is designed to raise an alarm for assistance and provides both a visual and auditory alarm to reassure the user that help should be on the way. The Kit comes with a pull cord module, main controller module, a beacon indicator module, and a reset module.

Technical Specification

Model	FTA-02
Power supply	230Vac / 50Hz
Earth Class	Class I (Must be Earthed)
Operating Temp	5°C to 40°C (indoor use only)
Construction	PVC
Main Control Panel Dimension	147 x 86.5 x 35mm
Remote Control Panel Dimension	86.5 x 86.5 x 13mm
Over Door Indicator Dimension	86.5 x 86.5 x 38mm
Pull Cord Switch Dimension	89.5mm dia. x 26.5mm
Mains Fuse required	3Amp
Internal PCB Fuse	1 Amp
Backup Battery	Ni-MH 9V 250mAh rechargeable
Battery Run Time	Standby: 2 hrs / Alarm: 20 mins
Main Control Panel Noise Level	67dB (adjustable)
Remote Reset Panel Noise Level	67dB
Over Door Indicator Noise Level	80dB



FTA-02C

Emergency Pull Cord Switch Module

The ceiling-mounted pull cord is equipped with two adjustable triangular cords. These pull cords can be positioned at different heights for easy accessibility. The first push cord is installed at 80-100 cm, allowing users to pull it while seated on the toilet or in a wheelchair. The second push cord is placed at 10 cm, ensuring that it can be reached by someone who has fallen to the floor.



FTA-02M

Main Control Unit (MCU)

The main control unit offers both a Call Answered and Reset function. The Reset function *(also available on the Remote Reset Unit)*, allows the user to deactivate the alarm once assistance is no longer needed. Both buttons are Braille-marked, making them accessible for visually impaired individuals.



FTA-02R

Reset Module

Reset Module is generally wall mounted device which Allows for easy alarm deactivation once assistance has been provided or no longer needed. The button comes with LED indicators and Braille lettering to ensure ease of use for individuals with visual impairments

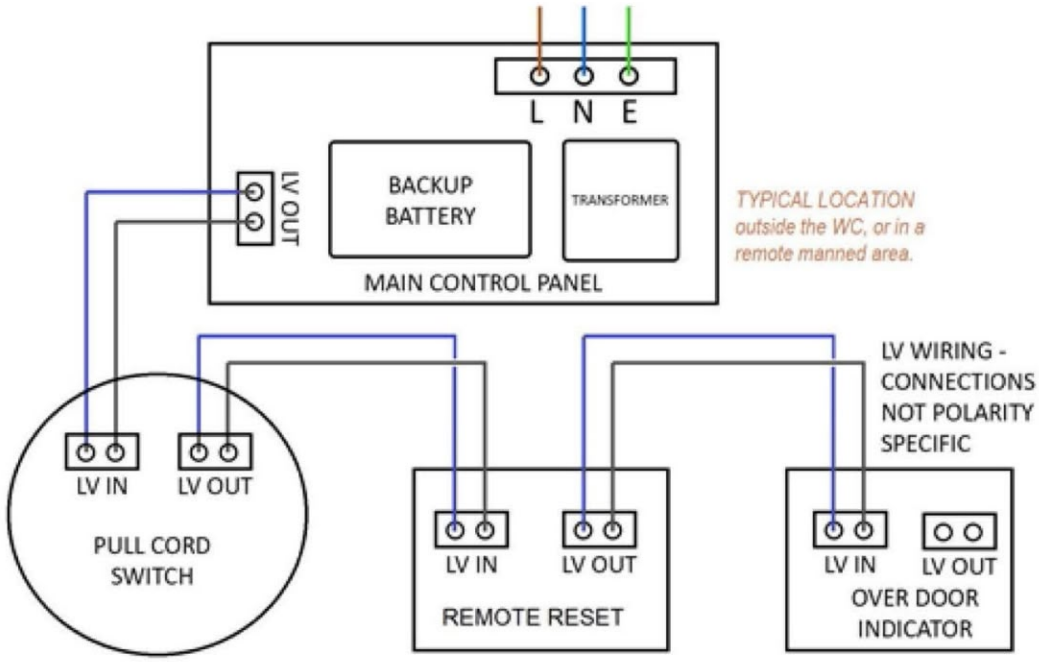


FTA-02B

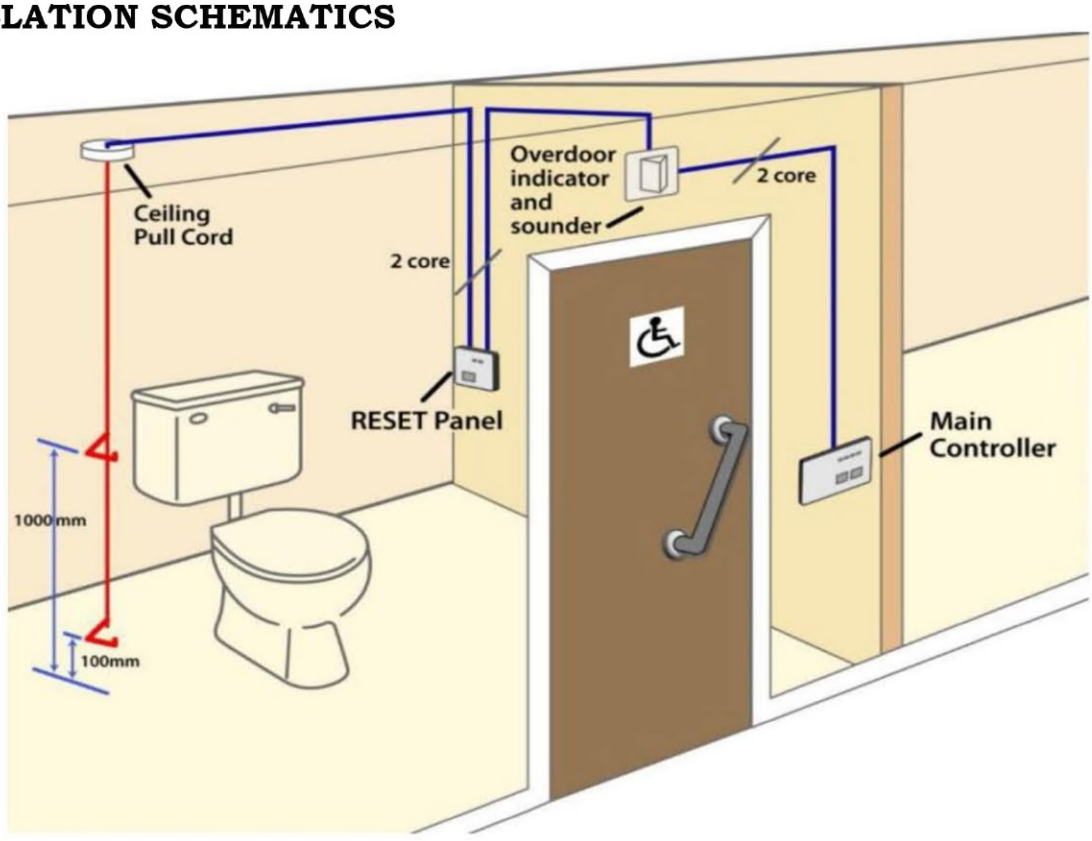
Beacon Indicator

The over-door light is fitted with a high-integrity protective cover and features a super-bright LED and a loud sounder. When the pull switch is activated, the alarm sounds, and the lights flash on all units, drawing immediate attention to the emergency. The continuous audio alarm at the over-door unit alerts staff, ensuring prompt response.

CONNECTION DIAGRAM

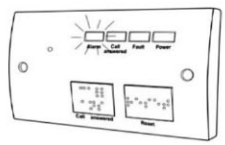


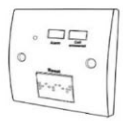
INSTALLATION SCHEMATICS



SAFETY AND INSTALLATION INSTRUCTION

1.0 KIT CONTENTS





1x Main Control Unit (MCU) incorporating buzzer
LED indicators volume control and Braille lettering on button
1x Remote RESET panel incorporating LED indicators and braille lettering on button
1x Over door light/sounder alarm unit
1x Pull cord Module with LED indicator including triangular pull toggles
1x Disabled WC sticker
1x M3.5 Socket screws (pack)

Important Notice

Switch OFF the mains before commencing installation and isolate and remove cicuit fuse or lock off appropriate MCB

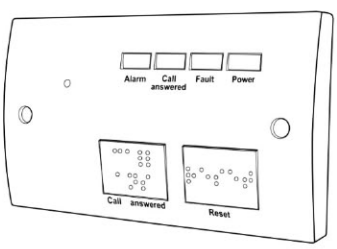
2.0 SPECIFICATION



- Mains power 230V 50Hz (Single Zone Controller only)
- Internal Rechargeable Battery **Not Included** (back up 2-3 hours standby approx. 20 mins continuous alarm)
- Sounders 65db (volume control on main control panel only)
- Disable RESET on main control panel (some local authorities require that the alarm can only be reset using the remote reset unit which is sited where the alarm is installed ensuring the alarm area is investigated to see if anyone is in need of help before unit is reset) via the on-board jumper.
- All buttons have Braille marking.
- Terminals are provided for additional sounder – "BUZZER"
- Optional external Battery back connect from the at main control unit – "BATTERY" to corresponding terminals on battery backup unit, Recommend Ni-MH AA 7 cells 8.4V 2000mAh – NOT INCLUDED

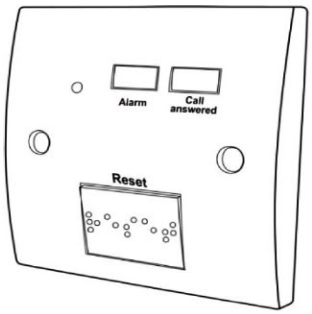
3.0 OVERVIEW

Main Control Unit (MCU)



- Orange LED indicates a fault (wiring fault or damaged cable)
- Red LED illuminated indicates main power is on
- When pull cord switch is activated, LED light will flash with buzzer
- Trigger the reset button will reset the whole system and silences both buzzer and flashing LEDs
- Green LED lit on when "Call Answered" is pressed.
- A variable switch is available at PCB board for volume adjustment
- The **RESET BUTTON CAN BE INACTIVED** on MCU by turn on and off the relevant onboard dip switch S1.
- "Buzzer + -" provides an external power signal output at 3 – 7V to external alarm
- A 5V signal port "5VC" at the lower right corner (rear view) is available for connection to 3rd party alarm repeater pane

Remote RESET Panel



- Sited in toilet area. Trigger the reset button will reset the whole system and silences both buzzer and flashing LEDs
- RED flashing indicates alarm
- GREEN illuminated means Call Answer button has been pressed and help is on the way

Overdoor LED light and sounder

The light/sounder is fitted over the door of room where the alarm has been installed there are LEDs and a buzzer /sounder to give an audio and visual alarm

Pull Cord Module

The pull switch is fitted close to toilet /sink and the 2 pull bangles are set as **bottom bangle 100mm above floor the second bangle 800 – 1000mm**

Self test

When installed and powered up the unit will carry out a self test automatically and orange LED will illuminate if a fault has been detected

Wiring

All the units in the kit are connected in parallel using a two-wire system and connection are not polarized. The wires can be connected in any order from **MCU output terminals** via twin cables to **input terminals of first unit** and so on

OPTIONAL External Battery back up

If an external battery backup is required, it can be installed to give 20 standby hours and 45min of continuous alarm. Simply connect the battery back via the battery terminals with cable to corresponding terminals on the MCU.



4.0 BASIC OPERATION

Once installed (INTERNAL BATTERY CONNECTED) and auto self test complete (no orange lamp which indicates kit has been connected CORRECTLY if no fault is present)

The MCU shall be installed at the location that is always manned when the facility is in use. The remote RESET panel and pull cord module shall be located within the area to be covered /protected. The overdoor LED light and sounder shall be installed over the entrance door to the area.

If Pull cord module is activated, alarms and LEDs will flash on all units. At the overdoor LED light and sounder, a continuous audio alarm is given which alerts people to the situation.

Green LED lit on when "Call Answered" at the MCU is pressed. At the Overdoor LED light and sounder, the LED flashes and the buzzer will oscillate every 3 seconds. A green LED at the remote RESET panel will lit on at the same time to signal that help is on the way.

The unit can be fully reset to active status using reset on MCU/remote reset (unless MCU's RESET has been inactived by dip switch to "MUTE")

5.0 INSTALLATION

5.1.1 Important notice: Switch off the mains before commencing installation and isolate and remove circuit fuse or lock off appropriate MCB. 220~240V single phases supply to appropriate terminal on the MCU is clearly marked with "L", "N", "E". Energise the MCU only after all interconnecting wires are secured and completed with no risk of shortcircuit.

5.1.2 This Disabled alarm kit must be installed by:
(a) Electrical Installation Contractor authorised by the Seller Company

5.1.3 The installer shall carry out installation in accordance with all applicable health and safety practices.

5.1.4 Before making fixing hole(s), the installer shall check and ensure that there are no Services hidden beneath the surfaces.

5.1.5 Make connections to the electrical supply in accordance with the following color code:

Neutral - *Blue or Black*
Earth - *Green and Yellow*
Live - *Brown or Red*

5.1.6 Interconnecting wires among other components beside MCU are not polarized. However, it is advisable to differentiate the "LV" and "IN/OUT" wires with different colors.

The unit has been designed to make installation simple using a two-wire system so all units can be connected in any order using the input/output terminals on all units after connecting to the output terminals on MCU to the input of first device (then output to input of second device and so on) cables are not polarized.

Once all connections have been made connect battery on main control panel by simply pressing on the battery clip and then restore mains power, the unit will automatically go through test mode and if no orange light is present indicates unit has been wired correctly, carry out test and commission unit as stated previously.

MAIN CONTROL UNIT WIRING AND SETTING

