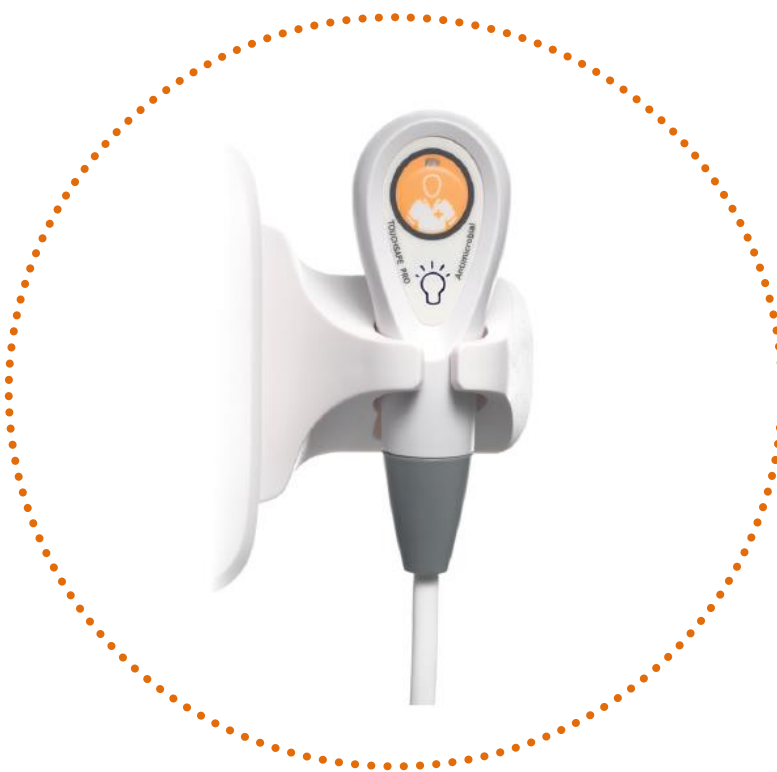


Overbed Lamp Switcher Kit Installation Guide



Aidcall operates a policy of continual product improvement and reserves the right to modify the specification of its products.

If any variation to the details in this document are suspected please contact Aidcall's Technical Support.

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1. PRODUCT OVERVIEW

The Touchsafe Pro Pear Push with an additional light switch can be used by patients to control an overbed lamp (mains or low voltage) and to activate an alarm call on the Nursecall system. The Pear Push can be rested or clipped to the bed of a patient to minimise the movement required, it can be stored in a Cradle alongside the Call Point when not in use.

There are 2 models of switcher kit available to control the over-bed lamp;

1. On/off operation – contacts toggle on/off with each press of the light button, or
2. Dimmable operation – contacts close as long as the light button is pressed

Note: the dimmable version is for use with dimmable lighting - it does not provide a dimming function.

Pear Pushes are completely waterproof and glow in the dark for ease of use during the night.

A red LED will flash, and the Call Point will beep as reassurance when an alarm call has been made.

The Pear Push has a safety-break in the wire to eliminate the possibility of damage to the Call Point should the lead become snagged and pulled hard.

Antimicrobial

Touchsafe Pro Pear Pushes are embedded with an antimicrobial agent during manufacture.

This prevents the growth of harmful micro-organisms thereby preventing the spread of germs and disease.

2. IMPORTANT SAFETY INSTRUCTIONS

	Read and understand these instructions before use. Keep these instructions for future reference.
	To reduce the risk of electric shock, do not disassemble the switcher unit unless you are qualified. Opening or removing covers may expose you to dangerous voltages or other hazards.
	Do not attempt to disassemble the Pear Push – it is fully welded and sealed for life.
	No user serviceable parts inside. Refer all servicing to qualified service personnel.
	The switcher unit should only be connected to a 220-240VAC 50/60Hz mains supply. If you are unsure of the type of power supply consult your local power company.
	Pear Pushes should only be plugged into Aidcall Call Points. Under no circumstances should they be plugged into any other manufacturer's equipment.
	Only use manufacturer approved cable during installation. Refer to this installation guide for details of cable types and recommended colour codes.
	Do not expose to direct sunlight.
	Do not submerge the Pear Push in water for prolonged periods.
	Do not expose the switcher unit to dripping or splashing water. As with any electronic equipment take care not to spill liquids into any part of the system. Liquids can cause a failure and/or a fire hazard.
	Clean with a hard-surface disinfectant wipe or a damp cloth and a non-abrasive cleaning product. Polish with a dry duster.
	Avoid using harsh, abrasive, or corrosive cleaning agents or detergents (e.g. scouring powders, bleaches, polishes, etc.) when cleaning this product.
	At the end of its life this product should be disposed of and recycled in accordance with the environmental regulations. See the Regulatory Information in section 3 below.

3. REGULATORY INFORMATION

	We declare this product complies with the relevant UK legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full UKCA Declaration of Conformity is available on request.
	We declare this product complies with the relevant European legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full CE Declaration of Conformity is available on request.
	This symbol on the product indicates it is classed as Electrical or Electronic Equipment and should not be disposed of with other commercial waste at the end of its working life. The Waste of Electrical and Electronic Equipment (WEEE) Directive (2012/19/EU) has been put in place to recycle products using the best available recovery and recycling techniques to minimise impact on the environment, treat hazardous substances and avoid increasing landfill. For product disposal please contact your supplier and check the terms and conditions of the purchase contract and ensure this product is not mixed with other commercial waste for disposal.
	This symbol on batteries indicates separate collection. Batteries contain chemicals that can be hazardous to health and the environment and should not be disposed of in the waste bin. The EU Directive (2006/6/EC) has been put in place to ensure the safe disposal and recycling of batteries. Return used batteries to your supplier or drop-off at your local municipal waste recycling depot.

4. MAINTENANCE & CARE

Pear Pushes should be regularly cleaned with anti-bacterial wipes, at the same time they should be checked for signs of external physical damage. Broken or cracked plastic can trap dirt and contribute to the spread of germs. Any Pear Pushes found damaged should be replaced immediately.

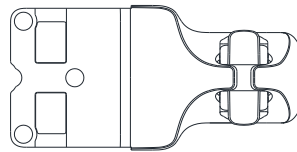
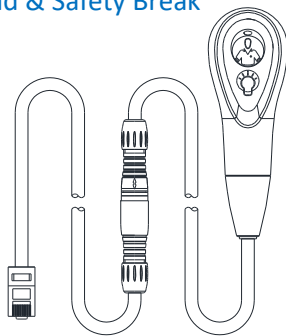
5. SWITCHER KIT OPTIONS

There are 2 switcher kits available; one for a basic on/off light switch and one for use with dimmable lighting. Either kit can be fitted to any of the Touchsafe Pro Call Point models.

Description	Part No.
Touchsafe Pro Switcher Kit for On/Off Lighting	E50311
Touchsafe Pro Switcher Kit for Dimmable Lighting	E50312

Each kit includes these parts...

2 Button Pear Push with
2m lead & Safety Break



Cradle



2m Accessory Lead



Switcher Unit
(on/off or dimmable)



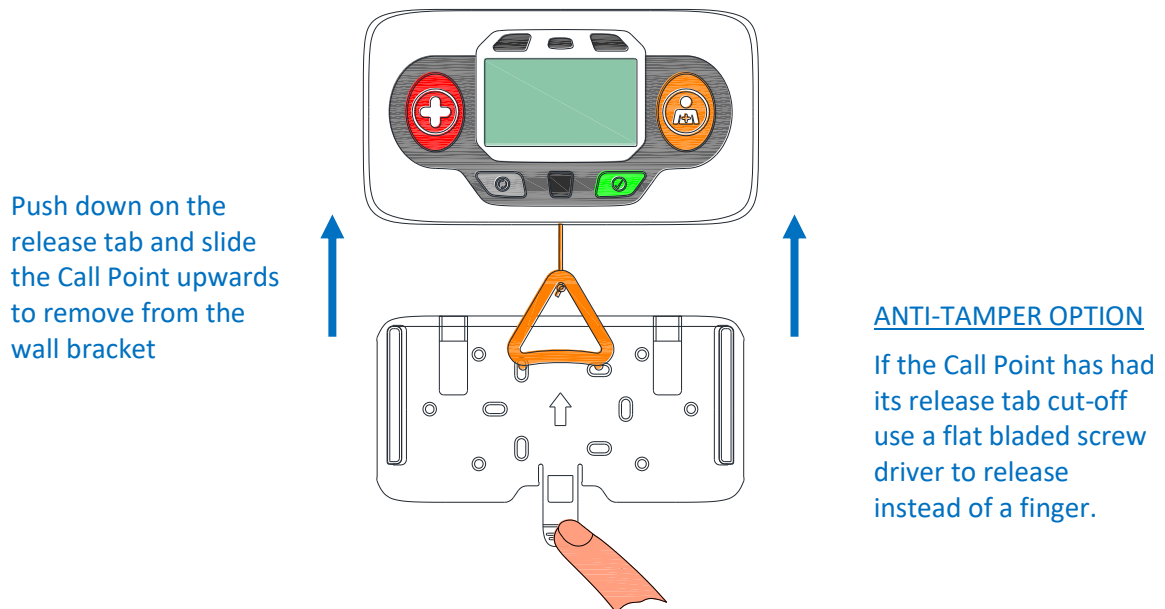
The on/off or dimmable switcher unit looks the same in both kits – it is factory programmed to be on/off switching or for use with dimmable lighting.

6. REMOVING AN EXISTING CALL POINT

If the switcher kit is being retro-fitted to an existing Touchsafe Pro Call Point then you will have to remove the Call Point from its mounting bracket and un-screw the bracket from the wall.

TO REMOVE THE CALL POINT

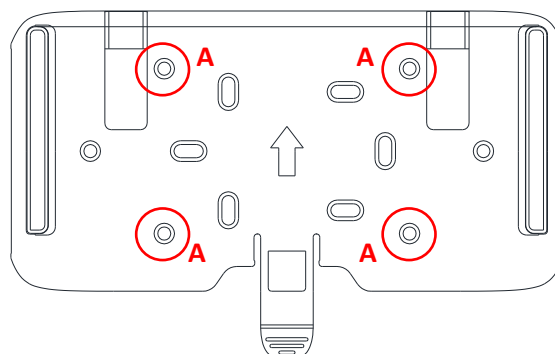
Simply press down on the release tab with a finger and at the same time slide the Call Point upwards and off the wall bracket.



A “Call Point Removed” alert will normally be signalled on the Nursecall Panel. However, this alert may have been disabled via the “Panel Settings” option on the Master Panel.

TO REMOVE THE WALL BRACKET

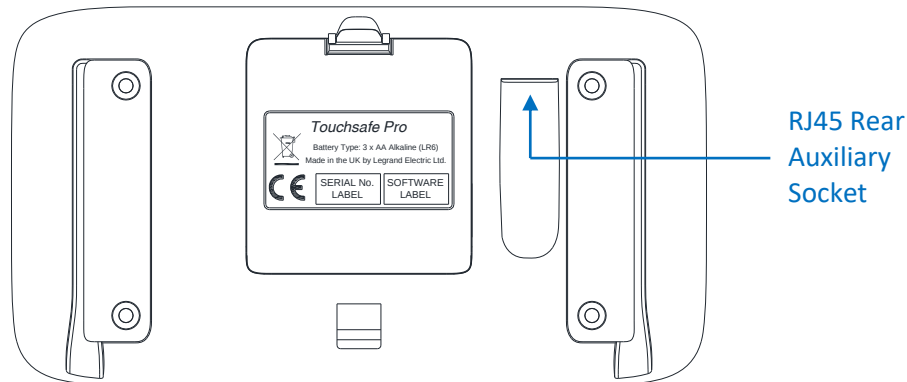
Once the Call Point has been removed undo the fixing screws holding the bracket to the wall – a Pozi head screwdriver will be required.



The 4 Holes “A” are normally used for fixing the wall bracket

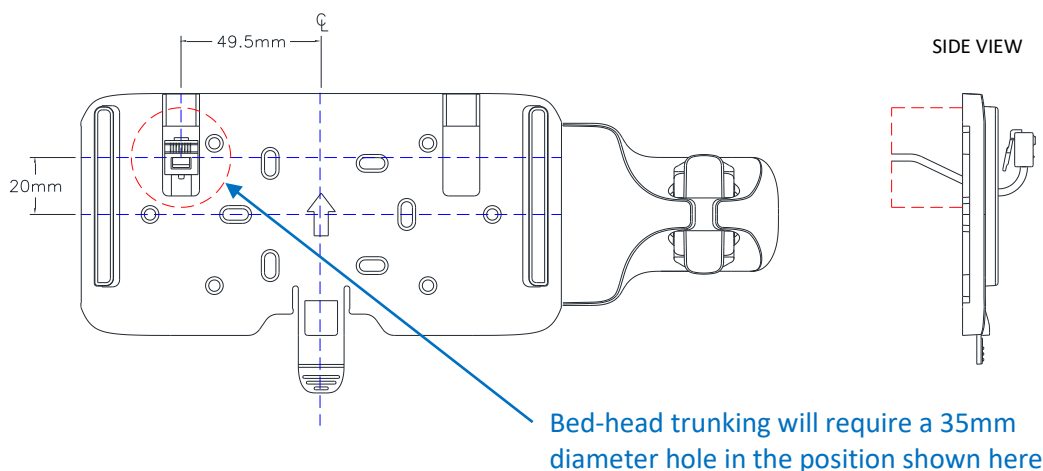
7. CONNECTING THE SWITCHER KIT

The Call Point has a hidden auxiliary socket on the rear face;



The switcher unit is connected to the rear socket using the 2 metre long Accessory Lead provided with the kit. The rear socket can only be accessed by a cable entering the wall bracket from behind the unit, *i.e. a surface clipped cable cannot be connected.*

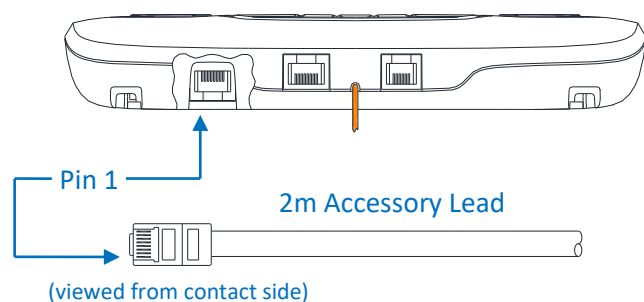
If the Call Point is being fitted on a wall then a flush 2 gang pattress box should be used, if it's being fitted on bed-head trunking then a 35mm diameter hole will be required, see details of the hole centre below;



If either of the above mounting solutions is not possible then a surface 2 gang backbox can be used. Aidcall P/No. O15025 2 Gang Trunking Mounting Frame/20mm Spacer is recommended.

REAR AUXILIARY SOCKET PIN-OUT

Pin No.	Wire Colour	Function
1	Blue	0V
2	Orange	RX (Not Connected)
3	Black	Accessory Input
4	Red	0V
5	Green	Pear Push Light Button N/O Clean Contacts
6	Yellow	
7	Brown	TX (Not Connected)
8	Grey	4.5V DC



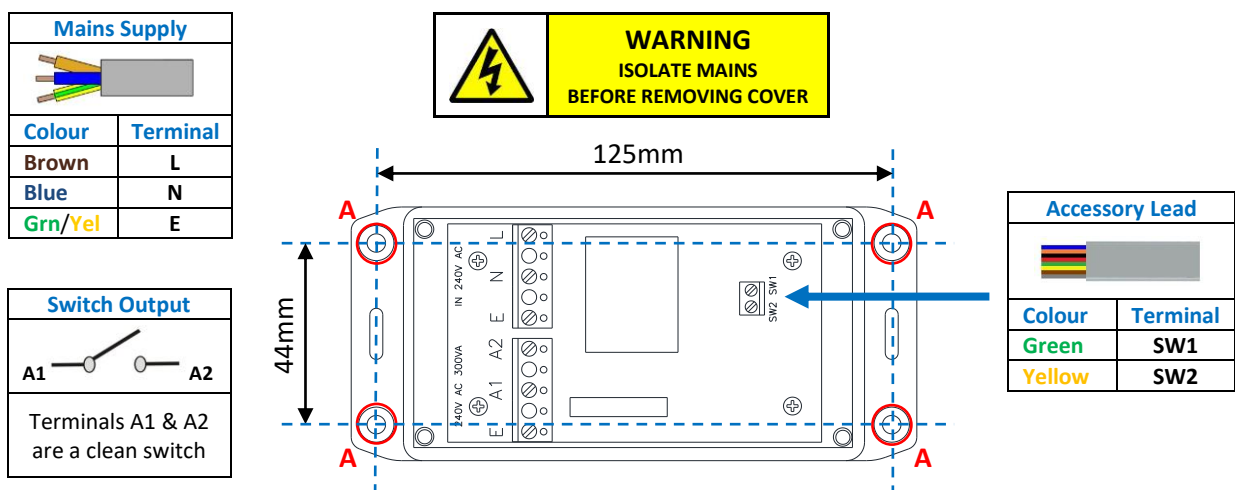
7. CONNECTING THE SWITCHER KIT - CONTINUED

The switcher unit must only be installed by a competent Electrician in accordance with the current IEE Wiring Regulations. It requires connection to the Mains Supply from the bed lighting circuit and has a clean contact relay output for switching Mains or Low Voltage onto the over-bed lamp.

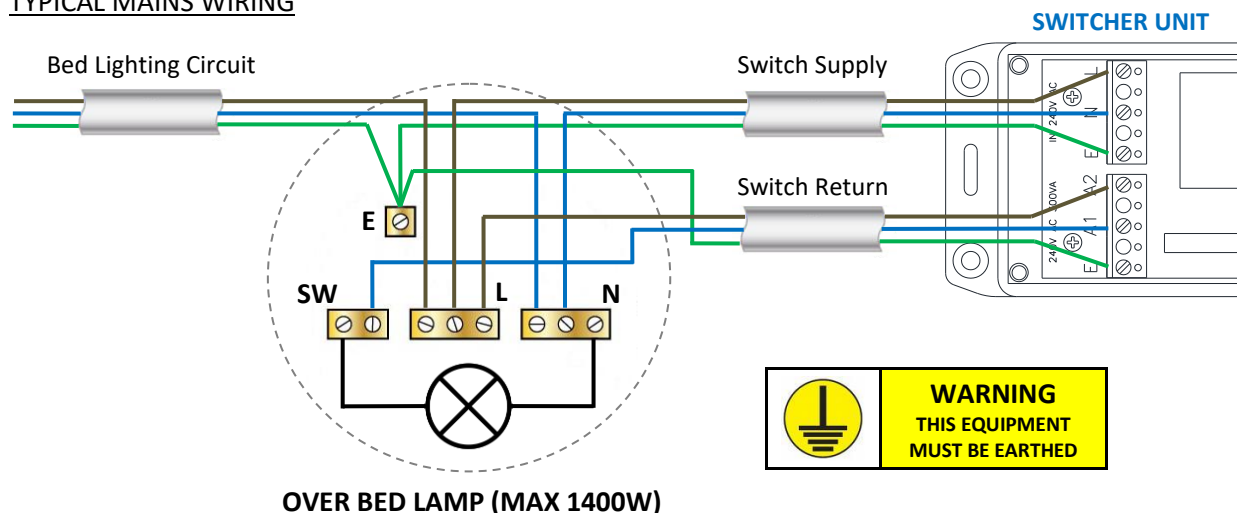
The switcher unit must be located within 2 metres of the Call Point for the Accessory Lead to reach. Where possible it should be fixed inside the bed-head trunking or in a similar concealed place.

CONNECTION DETAILS – MAINS LIGHTING

1. Plug the Accessory Lead into the Call Point rear auxiliary socket and connect the green and yellow wires to the Switcher unit SW1 & SW2 terminals. Isolate the other 6 unused wires in the Accessory Lead. Use the cable tie provided on the PCB to secure the Accessory Lead in place.
2. Connect a 240V AC mains supply from the bed lighting circuit to the Switcher LNE terminals. Use 3183Y 0.75mm 3 core mains flex for this connection.
3. Switch the Live supply to the over-bed lamp through the A1 & A2 terminals. Use 3183Y 0.75mm 3 core mains flex for this connection. Note: maximum switching capacity is 240V AC 6A (1400 Watts).
4. Fix the lid on the Switcher unit using the 4 screws provided.
5. Fix the Switcher unit with 4 screws through the 4 corner fixing holes "A"



TYPICAL MAINS WIRING



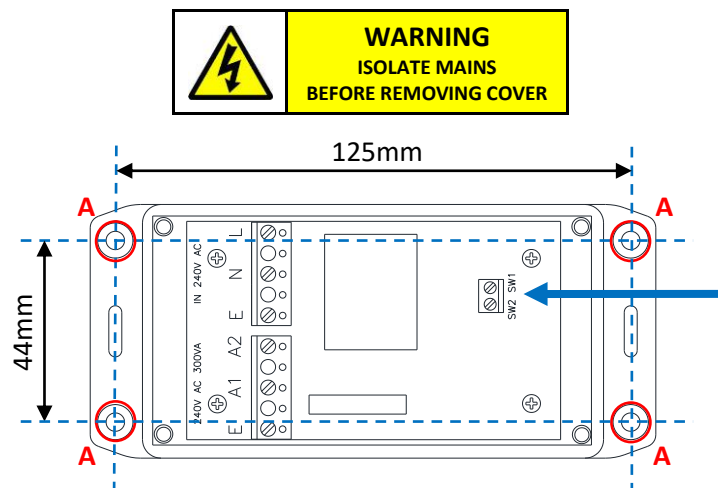
7. CONNECTING THE SWITCHER KIT - CONTINUED

CONNECTION DETAILS – LOW VOLTAGE LIGHTING

1. Plug the Accessory Lead into the Call Point rear auxiliary socket and connect the green and yellow wires to the Switcher unit SW1 & SW2 terminals. Isolate the other 6 unused wires in the Accessory Lead. Use the cable tie provided on the PCB to secure the Accessory Lead in place.
2. Connect a 240V AC mains supply to the Switcher LNE terminals using 3183Y 0.75mm 3 core mains flex.
3. Connect the Light Controller I/P & O/P to the A1 & A2 terminals (polarity not important).
4. Fix the lid on the Switcher unit using the 4 screws provided.
5. Fix the Switcher unit with 4 screws through the 4 corner fixing holes "A"

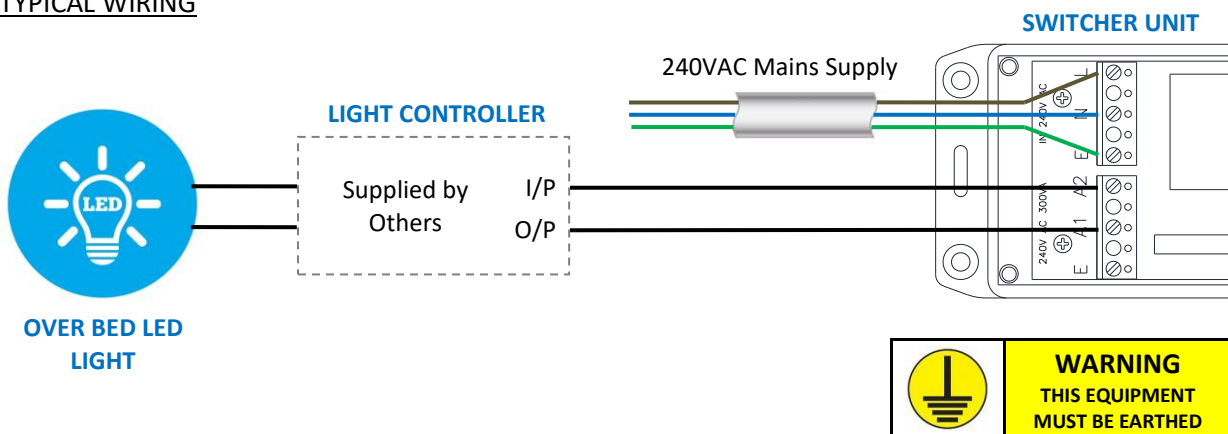
Mains Supply	
Colour	Terminal
Brown	L
Blue	N
Grn/Yel	E

Switch Output	
A1	A2
Terminals A1 & A2 are a clean switch	



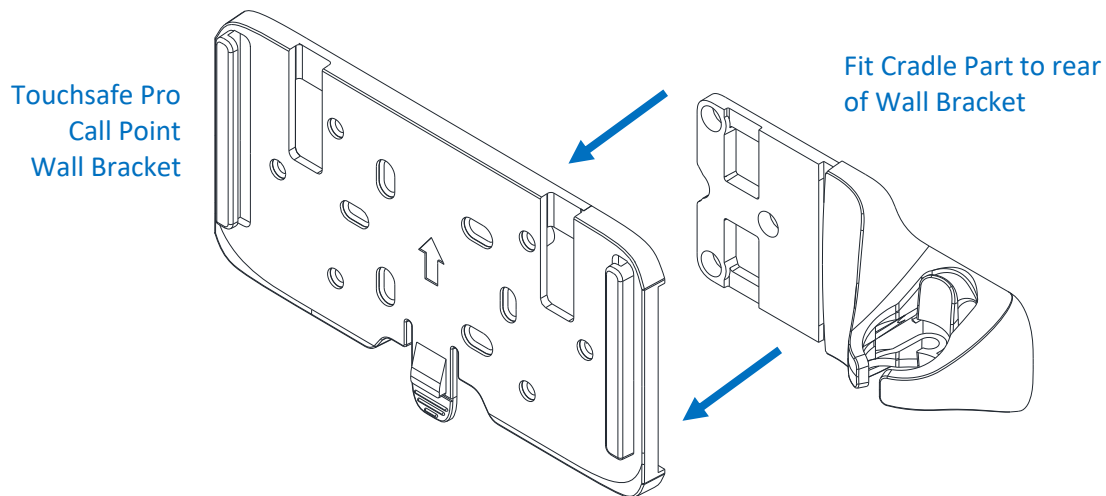
Accessory Lead	
Colour	Terminal
Green	SW1
Yellow	SW2

TYPICAL WIRING



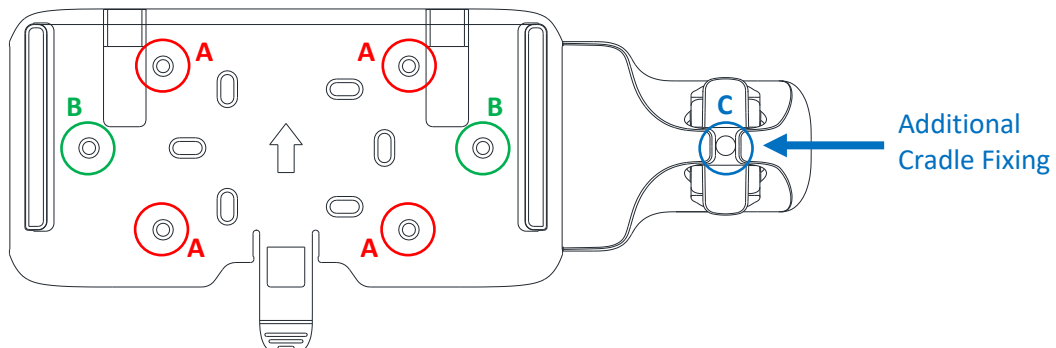
8. FITTING THE PEAR PUSH CRADLE

The cradle part fits into place on the rear of the Touchsafe Pro Call Point wall bracket before it is fixed to the wall.



The cradle part is normally fitted on the right hand side as shown above, however it can be fitted on the left hand side if desired.

Fix the wall bracket to bed-head trunking use the most appropriate fixings through holes “A”
If it’s being fitted on a 2 gang pattress box using standard M3.5mm pattress screws through holes “B”.



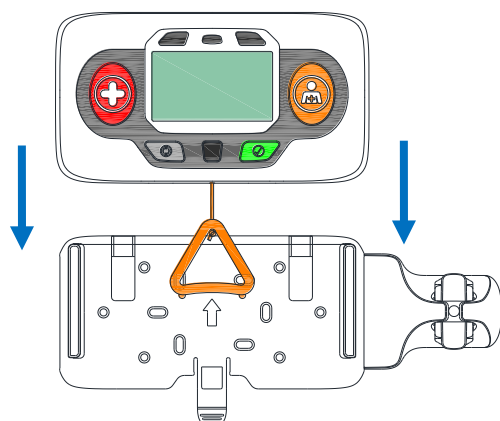
If fitted flush on bed-head trunking (or a flush pattress) use hole “C” as an additional fixing for the Cradle. Remove the small plastic plug for access, and then refit to cover the screw head.

REFITTING THE CALL POINT

Hold the Call Point above the wall bracket and line-up the 2 slots in the rear face with 2 rails on wall bracket and slide downwards into place.

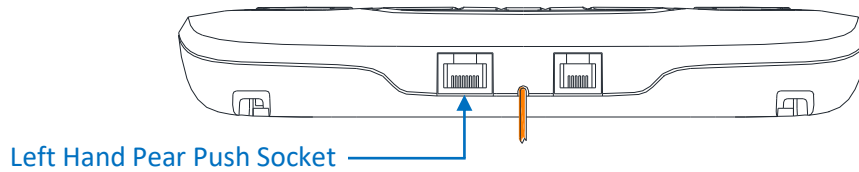
Take care to push the Accessory Cable back through the slot in the wall bracket as the Call Point is slid into place.

The Call Point should “click” onto the release tab when fitted correctly.



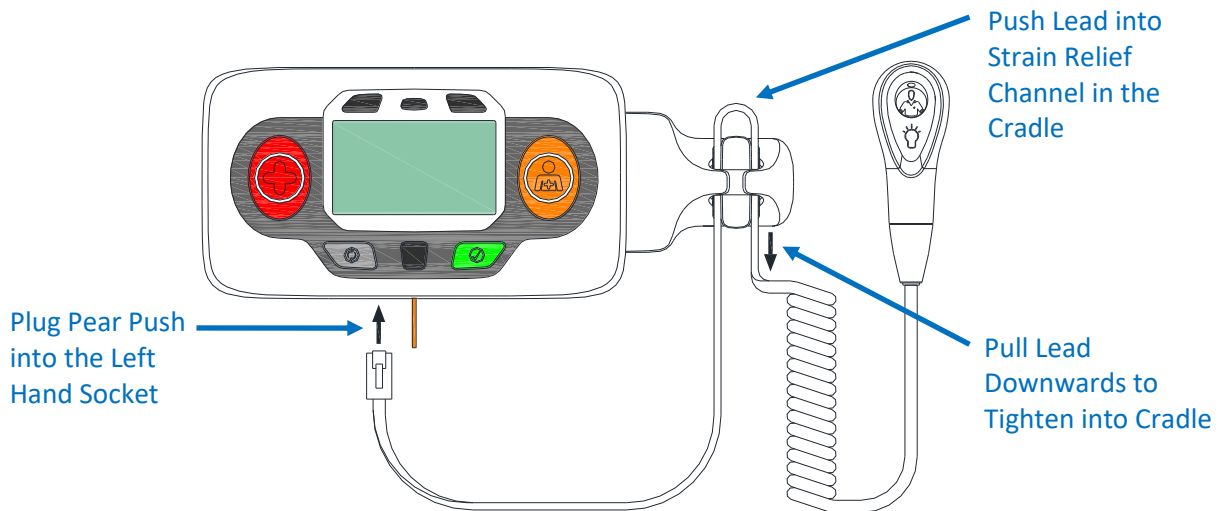
9. FITTING THE PEAR PUSH

Plug the Pear Push into the left-hand socket on the lower face of the Call Point, the plug only goes in one way and it will click into place when inserted correctly.



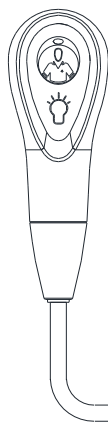
The 2 sockets on the lower face of the Call Point are different types so it is impossible to plug the Pear Push lead into the wrong socket. To remove the lead; push down on the clear plastic lever and pull the plug out.

Leave a short loop on the wire then push it into the strain relief channel on the cradle – see below;



Pull the lead downwards so the wire fits tightly around the cradle strain relief.
Place the Pear Push in the Cradle.

10. PEAR PUSH LEAD PIN-OUT



Pin No.	Function
1	Not Connected
2	Call
3	LED -ve
4	3V
5	Tamper
6	Light Switch N/O Contacts
7	
8	Not Connected

Pin 1 (viewed from contact side)

11. SPARES & ACCESSORIES

SPARES

All parts of the switcher kits are available separately as spares;

Description	Part No.
Touchsafe Pro 2 Button Pear Push plus Safety Break	ZNC690
Touchsafe Pro Pear Push Cradle	E50260
2m Accessory Lead (8/8 RJ45)	ZNC243
Switcher Unit for On/Off Lighting	ZNC314
Switcher Unit for Dimmable Lighting	ZNC319

ACCESSORIES

Description	Part No.
Linen Clip	W07495
Pear Push Socket Double Adapter (RJ45)	P10285
2 Gang Trunking Mounting Frame/20mm Spacer	O15025



The Linen Clip is used to fasten a Pear Push to the bed sheet when it is not stored in the Cradle

The Double Adapter is used to connect 2 Pear Pushes to the same Call Point



The 2 Gang Mounting Frame/20mm Spacer is used for surface mount applications

For more information on spares or accessories please contact Aidcall Customer Services on 01670 357431.

12. SPECIFICATION

Pear Push	
Safety	Compliance to EN 60950-1:2006+A12:2011
EMC	Compliance to EMC 2004/108/EC
Materials	Compliance to EU Directive RoHS 2011/65/EU
Design	Compliance to Department of Health's guidelines HTM 08-03
Pushbutton 1	Nursecall (Orange)
Pushbutton 2	Light Switch
Cable	6 core Tinsel - Antimicrobial Elastic PVC Jacket (OD: 3.6mm x 5.6mm)
Cable Length	2 metres inc coiled section (2.5 metres extended)
Data Plug	8/8 Long Bodied RJ45
Safety Break	Male/Female 8 Pin Binder 620 Series Snap-in IP67 Connector
Visual Indicator	Red call reassurance LED
Body Material	Antimicrobial ABS (White RAL 9003)
Collar Material	Antimicrobial ABS (Dark Grey Pantone 432C)
Keypad Material	Antimicrobial LT 175 Polyester (Phosphorescent Green)
Flammability Rating	UL 94 V-0
Ingress Protection Rating	IP65
Power Supply	3V
Dimensions	102mm x 35mm x 20mm (HxWxD)
Weight	95 grams
Relative Humidity	Non-condensing
Operating Humidity Range	10% to 90% RH
Operating Temperature Range	0°C to 50°C
Storage Temperature Range	-20°C to 60°C

Switcher Unit	
Safety	Compliance to EN 60950-1:2006
EMC	Compliance to EMC 2004/108/EC
Materials	Compliance to EU Directive RoHS 2011/65/EU
Trigger Input	N/O Clean Contacts
Relay Output Contact Rating	240V 6A
Enclosure Material	FR ABS (Light Grey)
Flammability Rating	UL 94 V-0
Ingress Protection Rating	IP54
Power Supply	240V AC 50-60Hz 0.5W
Dimensions	112mm x 62mm x 27mm (LxWxD)
Weight	142 grams
Relative Humidity	Non-condensing
Operating Humidity Range	10% to 90% RH
Operating Temperature Range	0°C to 50°C
Storage Temperature Range	-20°C to 60°C