

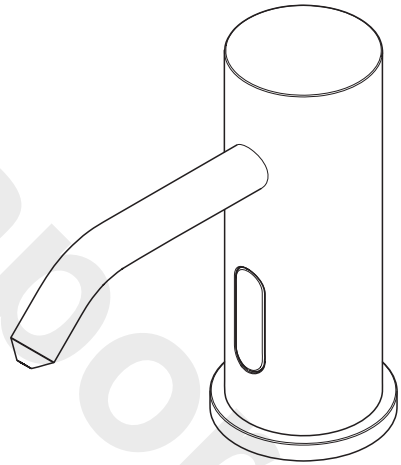
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# BRISTAN

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## Installation Instructions and User Guide

Infrared Automatic Soap  
Dispenser



**Models covered:** IRSD1-CP, IRSD1-BN,  
IRSD1-BZ

**Please keep this booklet for future  
reference.**

Installer, when you have read these  
instructions please ensure you leave  
them with the user.

# Contents

Thank you for choosing Bristan, the UK's leading showers and taps expert.

Your Bristan Soap Dispenser has a non-touch control which uses infrared sensing technology to detect human presence. Once detected, the spout instantly dispenses a small amount of liquid soap into the users hands to eliminate unnecessary wastage, whilst creating a more hygienic washroom solution.


All products manufactured and supplied by Bristan are safe and comply to legislative requirements. Providing they are installed correctly and receive regular maintenance in accordance with these instructions your user experience will not be affected.

For a safe and successful installation these instructions should be used as guidance, thereafter they should be left with the user.

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# Important Safety Information

- Please read these instructions thoroughly and retain for future use.
- All products manufactured and supplied by Bristan are safe provided they are installed, used correctly and receive regular maintenance in accordance with these instructions.
- **If you are in any doubt about your ability to install this product safely you must employ the services of an experienced qualified plumber.**
-  **Warning:** Do not operate the product if you suspect it is frozen. Do not site it where it might be subjected to freezing conditions.
- Remove all packaging and check the contents for damage before starting installation.
- Before starting any installation please consider the following: before drilling into walls, check that there are no hidden electrical wires, cables or water supply pipes. This can be checked with the aid of an electronic detector.
- If power tools are used do not forget to:
  - Wear eye protection
  - Unplug equipment after use
- This product **must** not be modified in any way as this will invalidate the guarantee.

## Specifications

**Sensing Range:** 0-8 cm

**Activation Time:** 0.5-1s

**Power Supply:** AC: 230V

DC: 1.5V (4 x AA alkaline batteries - Not Supplied)

**Bottle Capacity:** 1.6 litres

**Ambient Temperature:** Normal Temperature

**Viscosity of liquid soap:** 100-3500cp (mpA · s)

This product should not be used to dispense alcohol-based hand sanitizer gels or liquids.

Recommended Usage			
Domestic	✓	Heavy	✓
Light	✓	Health Care	✗

# Product Features

## More Hygienic

The proximity sensor removes the need to touch the spout, reducing the spread of germs and reducing the chance of cross infection.

## Battery Override

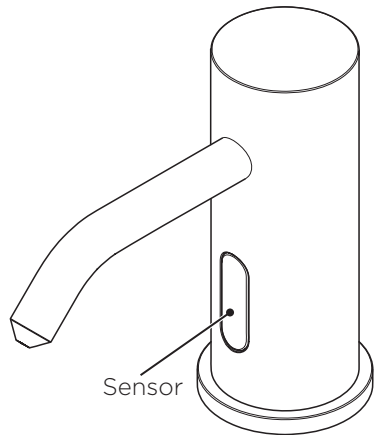
Your infrared soap dispenser is supplied with a back up battery pack. In the event of a power failure, the product will automatically switch to battery operated mode to ensure the spout continues to function.

## Low Battery Warning

When the batteries run low and the power falls below 3.9V the sensor light will flicker to indicate the batteries are running low and need replacing.

When the batteries are exhausted the sensor light will not light up.

**This product should not be used to dispense alcohol-based hand sanitizer gels or liquids.**



# Installation Requirements

## Electrical Connections

**Regulations:** The electrical installation must be carried out in accordance with the national electrical regulations and installed by a qualified person.

**Safety:** In the interests of electrical safety a 30 mA residual current device (R.C.D not supplied) should be installed in the supply circuit. This may be part of a consumer unit or a separate unit.

Before starting work on the electrical supply ensure the power supply is isolated.

**DO NOT** allow the supply cord to contact hot surfaces. The cord should be safely routed and secured by cable clips.

**Connections:** The power supply must be permanently connected to the fixed wiring of the mains supply using the factory fitted supply cord, via a switched fused spur off the ring main.

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral

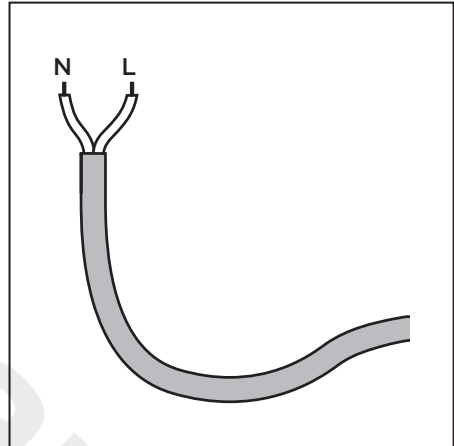
Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your connection unit proceed as follows:-

The wire which is coloured blue must be connected to the terminal which

is marked with the letter 'N' or is coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or is coloured red.



**Fuse:** This following fuse size should be used.

Model	Fuse Size (AMPS)
IRSD1-CP	3
IRSD1-BN	3
IRSD1-BZ	3

## Supply Cord Replacement

If the supply cord is damaged, it must be replaced by a genuine Bristan supply cord. Contact Bristan Customer Services on 0330 026 6273 to request new spare parts.

# Installation

## 1. Fit The Spout

Fit the spout to the sink / basin ensuring the dispensing cable and sensor cable are threaded through the hole in the sink / basin.

## 2. Secure Spout to Sink / Basin

Screw the metal backnut onto the thread of the spout upto the underside of the sink / basin.

Tighten backnut using a suitable spanner.

## 3. Fit Wall Brackets

Position the brackets onto the wall surface and mark the position of the fixing holes.

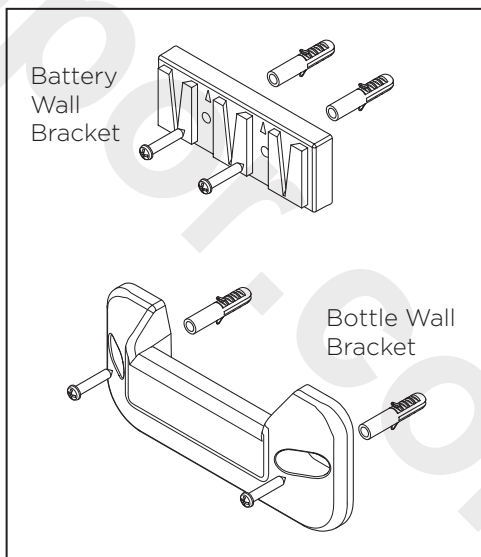
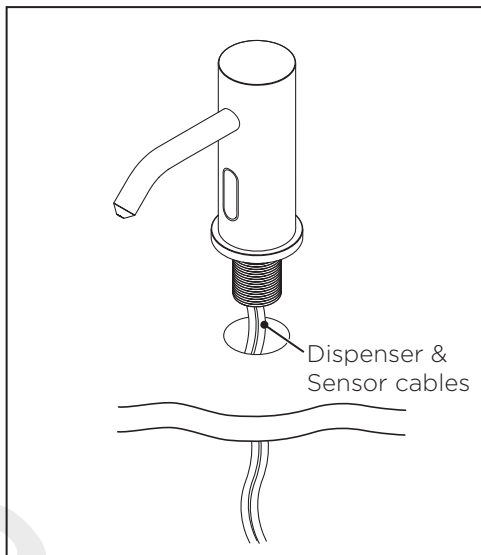
Remove the brackets and drill suitable holes for the wall plugs supplied.

Before drilling into walls, check that there are no hidden electrical wires, cables or water supply pipes. This can be checked with the aid of an electrical detector:

If power tools are used do not forget to:

- Wear eye protection
- Unplug equipment after use

Fit the wall plugs and position the brackets into position and secure using the screws provided.



# Installation

## 4. Attach Pump to Bottle

Ensure the dispenser tube is located inside the bottle and push the pump down firmly onto the bottle until a loud 'click' is heard.

To remove the pump from the bottle press the release button in on the side of the pump and pull the pump from the bottle.

This product should not be used to dispense alcohol-based hand sanitizer gels or liquids.

## 5. Connect Sensor Cable and Dispenser Cable

Connect the sensor cable from the spout to the sensor cable on the pump. Push the two connections together and tighten the connecting ring to ensure the two connections are locked together.

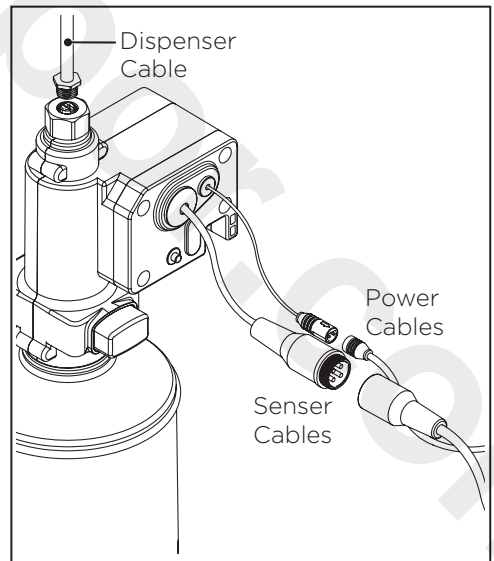
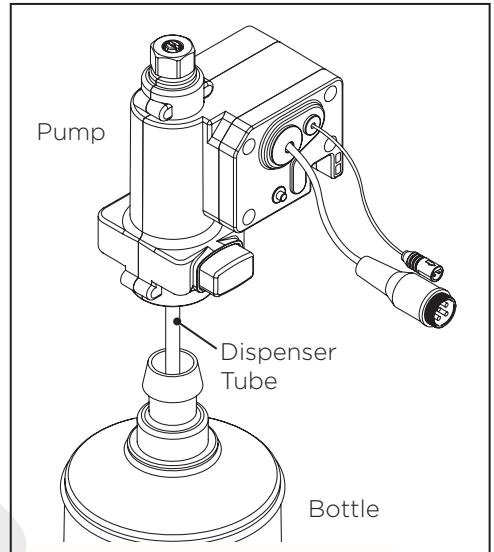
Connect the dispensing cable from the spout into the top connection on the pump.

Push the threaded connection of the dispensing cable into the connection on the pump and tighten the nut ensuring it is fully tightened.

A suitable spanner may be used to tighten the nut.

## 6. Place Pump into Bracket

The pump has a cut out section which the wall bracket slots into.



# Installation

## 7. Connect Power Supply Cable

Before starting any electrical work ensure the power supply is isolated.

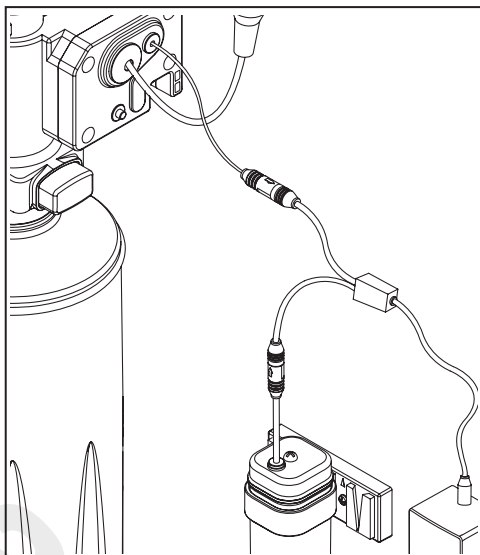
Wire the electrical power cable into a switched fused spur off the ring main.

The blue wire should be wired to the neutral connection and the brown wire should be connected to the live connection.

**Note:** For full electrical requirements see 'Electrical Connections' in 'Installation Requirements' section on page 5.

**⚠ Important:** The power lead must be permanently connected to the fixed wiring of the mains supply using the factory supplied power cable.

Plug the power cable into the power cable on the pump.



## 8. Inserting Batteries

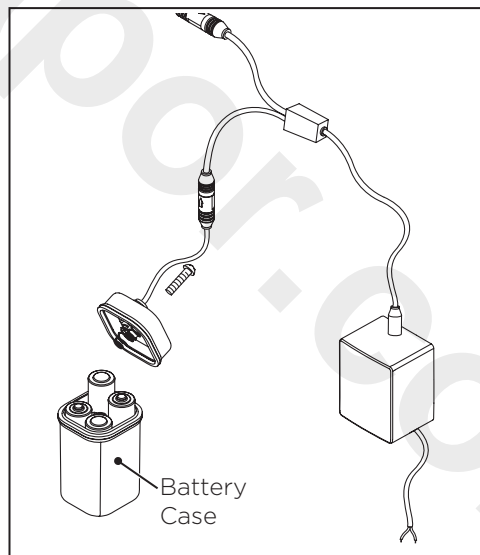
Remove the battery cover by loosening the screw in the top of the cover.

Insert 4 x AA batteries into the battery box ensuring they are inserted the correct way.

**Note:** Only use 1.5V AA (LR6) Alkaline batteries (preferably => 2000mAh for good battery life).

Replace the battery box cover and tighten the screw. Insert the battery box into the holder.

Push the holder into the battery box wall bracket.





# Commissioning

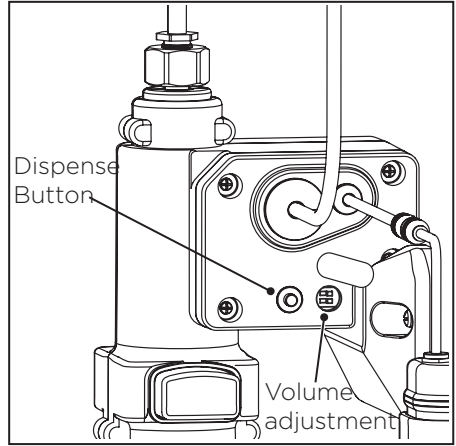
## Commissioning Sequence

Before using the soap dispenser for the first time the following sequence must be carried out.

Fill the bottle full of liquid soap. Refer to specification section on page 3 for the correct liquid soap to be used.

**⚠ Important:** Gels/sanitisers cannot be used, only soap in the viscosity range of 100-3500cp (mpA • s)

Locate the dispense button on the side of the pump. Press and hold the button until soap is dispensed from the spout. This will ensure the dispenser tube and cable are full of liquid soap.



## Selecting Volume Adjustment

The soap dispenser has four dispense volume adjustment settings. Each adjustment setting dispenses a different volume of liquid soap.

Volume Adjustment Setting	Volume of liquid soap (ml)
Low	0.5
Normal	1
Medium	1.5
High	2

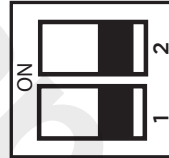
To adjust the volume of soap dispensed follow the steps below.

Locate the volume adjustment switches under the rubber cover.

Set the switches to the required position for the desired volume adjustment setting.

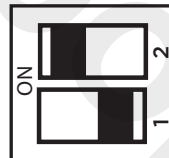
Refer to the switch position diagrams.

## Volume Adjustment Switch Positions



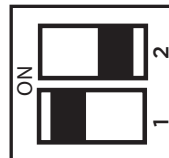
**Low: 0.5 ml**

Switch 1: Off  
Switch 2: Off



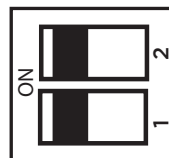
**Normal: 1 ml**

Switch 1: Off  
Switch 2: On



**Medium: 1.5 ml**

Switch 1: On  
Switch 2: Off



**High: 2 ml**

Switch 1: On  
Switch 2: On

# Operation

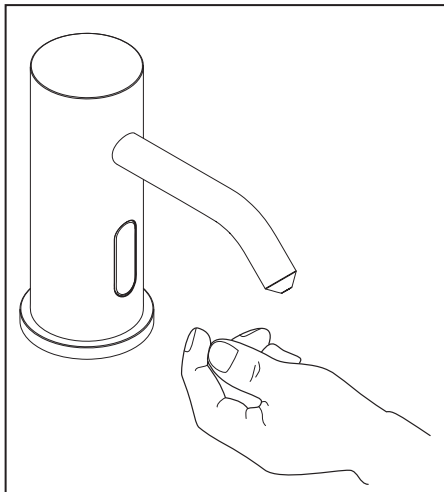
## Using the Automatic Soap Dispenser

Place the users hands under the spout within the sensing range.

Once the users hands have been detected a small amount of liquid soap will be dispensed from the spout into the users hands.

**Note:** The sensing range 0-8cm from the sensor.

This product should not be used to dispense alcohol-based hand sanitizer gels or liquids.



# Maintenance

## General Cleaning

Your fitting has a high quality finish and should be treated with care to preserve the visible surfaces. All surfaces will wear if not cleaned correctly, the only safe way to clean your mixer is to wipe with a soft damp cloth. Stains can be removed using washing up liquid. All bath cleaning powders and liquids will damage the surface of your fitting, even the non-scratch cleaners.

**Note:** Never use abrasive detergents or disinfectants or those containing alcohol, hydrochloric acid or phosphoric acid.

## Disposal and Recycling

### End of Product Life

When this appliance has reached the end of its serviceable life, it should be disposed of in a safe manner, in accordance with current local authority recycling, or waste disposal policy.

### Battery Disposal

Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.

This symbol on the product or packaging indicates that this product should not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more information about where you can drop off your waste equipment for recycling, please contact your local council office, your household waste disposal service or the shop where you purchased the product.



# Troubleshooting

Symptom	Cause	Remedy
Spout does not dispense soap.	Sensor cable not connected.	Check that the sensor cable is connected. If not connected, connect sensor cable. Refer to 'Installation' section on pages 6-8.
	Possible blockage in dispense tube or dispense cable.	Remove pump from bottle and clean tube. Remove dispense cable from pump and clean.
	Low or no soap in bottle.	Fill bottle with liquid soap. When soap is at approximately 20mm from the bottom top soap up.
	No electrical power to pump.	Ensure power cable is connected. Refer to 'Installation' section on pages 6-8.
	Soap used not suitable for this product.	This product can only be used with hand-washing soaps that fall within the viscosity shown in the Specification. Due to the complex nature of the hand sanitisers/gels being used, it is difficult to predict how they act when pumped (even if on paper they have the correct viscosity). Some are manufactured to thicken when friction/heat/movement is applied in order to help them absorb, and this property can block the pump mechanism.

# Troubleshooting

Symptom	Cause	Remedy
Sensor light not working.	Sensor light faulty.	Contact Bristan Customer Services on 0330 026 6273.
	Batteries are exhausted.	Replace batteries.
Short cycles of batteries.	Incorrect batteries fitted.	Replace batteries. Ensure batteries are 1.5V AA (LR6) Alkaline batteries (preferably =>2000mAh) for good battery life.
Infrared sensor flickering.	Batteries running low.	Replace batteries. Ensure batteries are 1.5V AA (LR6) Alkaline batteries (preferably =>2000mAh) for good battery life.
No power to the spout.	Mains power cable not connected.	Connect mains power supply cable. Refer to 'Installation' section on pages 6-8.
	Mains power supply failed and no batteries fitted or batteries low.	Check mains power supply. Insert / change batteries. Refer to 'Installation' section on pages 6-8.
Spout dispenses soap randomly without a user present.	Object in sensing range.	Ensure the sensing range is clear.

## Notes

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# Notes

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**Issue: D3**

**Part Number: FI Infrared Soap**

# BRISTAN

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For any other queries, please call our Customer Service on 0330 026 6273 where our expert team of advisors will be able to offer you any help and advice. For full guarantee terms and conditions visit [www.bristan.com/guarantees](http://www.bristan.com/guarantees).



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