Patent application number 0620453.1

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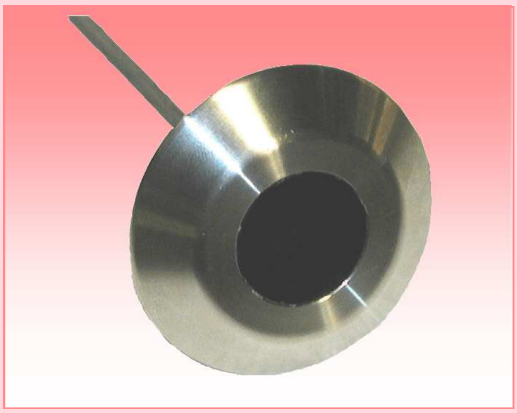
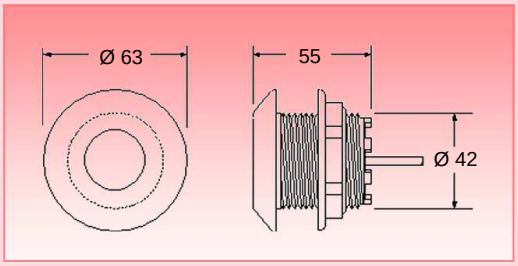
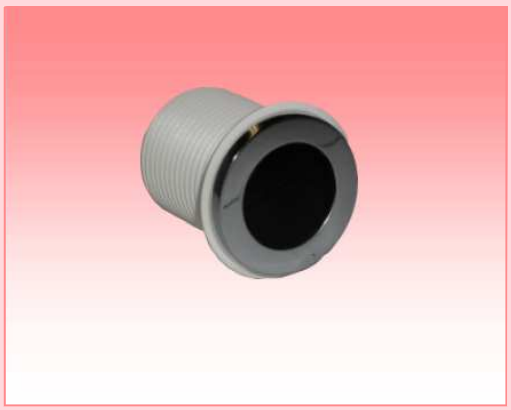
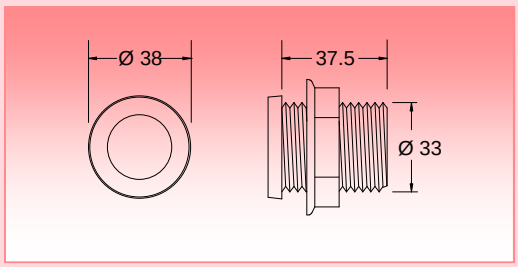
Infra Red Non Contact Switch





Vandal Resistant Stainless Steel





Chrome Plated ABS

Benefits

- Two housings available**:**
  - Vandal Resistant Stainless Steel version.
  - Compact Chrome Plated ABS version.
- Non contact switching. Totally hygienic operation.
- Sensing Range 60 to 75 mm (nominal).
- Special versions can sense up to 500mm.
- Simple installation.
- Maintenance override using handheld transmitter.
- Smooth outline allows efficient cleaning.
- Unique Dual output option available**:**
  - Pass hand in front produces one function .
  - Hold hand in front produces a second function.
- Momentary , Latched ,Timed or Delay function available.
- Open collector transistor or relay contacts output.
- Can switch 10A 230Vac with optional plug module.
- Low current consumption <3mA.
- Wide voltage supply options from 5 to 30V.
- Sealed to IP67.

This Infra Red sensor is set behind a protective Acrylic lens and housed in either a vandal resistant stainless steel escutcheon or a slim line chrome plated ABS version.

The shape of the housing and the fit of the lens eliminate any joints or areas where dirt can collect.

The sensor is potted in a highly water resistant epoxy and sealed on the front face so that the entire sensor can be washed with suitable cleaning fluids for hygiene.

The Infra Red sensor detects objects such as a finger or hand at a distance of approximately 70 mm, (with modified versions, large objects ie a person may be detected up to 500mm). This allows operation of the switch without any actual contact.

The light source is modulated to reduce nuisance operation due to ambient lighting conditions.

Installation simply requires a suitable sized hole to be drilled in the mounting plate, The sensor is then passed through the hole and secured with the back nut. The sensor is nominally powered by a 12 to 24 volt DC supply and provides an open collector output to enable switching of the controlled equipment. This output is capable of switching a suitable relay or solenoid or may be connected directly into the controlled equipment..

To enable routine maintenance, the switch can be operated at a distance in excess of 5 Metres using a small handheld transmitter.

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