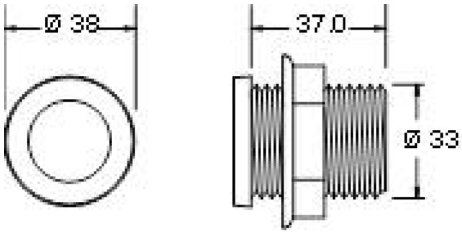
6461 Infrared non-contact switch

herga
Technology Ltd

- Non-contact switching
- Sensing range 75–100mm (nominal)
- Special versions can sense up to 500mm
- Simple installation
- Open collector transistor or relay contacts output
- Low current consumption <3mA

Reference dimensions



General specifications

Standards/approvals	Low voltage directive 2014/35/EU
Degree of protection	EN60529 IP67
Connection method	Free cable ends
Electrical rating	Up to 2A 30V AC/DC
Contact configuration	Momentary, latching or timer delay
Pressure range	n/a

Operating temperature range	-5°C to +40°C
Body material	ABS or stainless steel housing with choice of chrome plastic or stainless steel escutcheon
Weight	Plastic - 0.1 kg, Stainless steel - 0.2 kg

Additional information

This 6461 infrared switch 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 switch is potted in a highly water resistant epoxy and sealed on the front face. This allows the entire switch to be washed with suitable cleaning fluids for hygiene.

The infrared switch detects objects such as a finger or hand at a distance of approximately 70 mm, (with modified versions, large objects - i.e. a person may be detected up to 500 mm). 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 switch is then passed through the hole and secured with the back nut. The switch is nominally powered by a 12 to 24 VDC 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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