## MULTIPLE SENSORS CONTROLLING THE SAME LOAD

Multiple sensors can be used to control the same load by connecting the switched outputs from the sensors in parallel. For small LED loads (up to 100W) the load can be controlled directly. For larger loads, it is recommended that the parallel connected outputs control a contactor coil, with the contactor output controlling the load
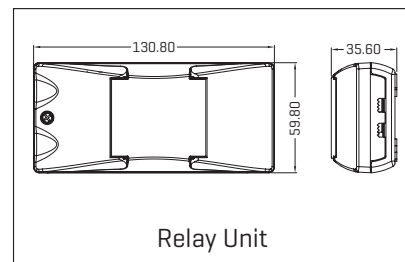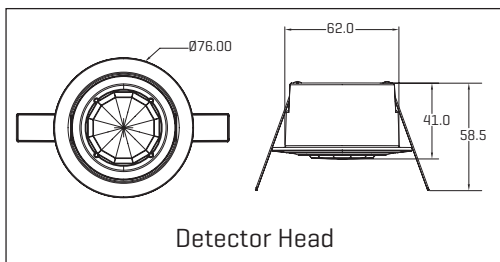
DAY MODE FUNCTION

If the Lux dial is set to 'Daylight' (the Sun symbol), the sensor will operate regardless of ambient light level.

USING THE LENS SHIELD

Undesired detection areas can be shielded by attaching the included lens shield to the sensor. The lens shield can be trimmed to provide the required detection pattern.

DIMENSIONS

Detector Head

Relay Unit
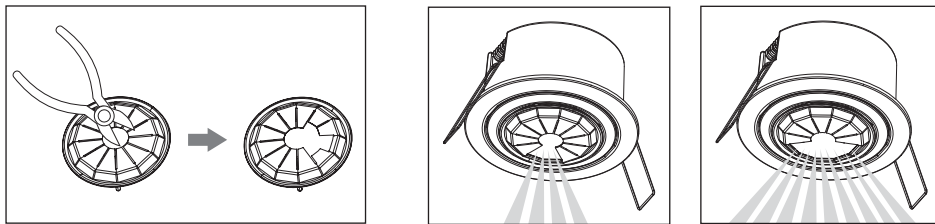
AU P: **1300 722 275**
    E: **sales@voltexelectrical.com.au**
    www.voltexelectrical.com.au

NZ P: **0800 55 66 33**
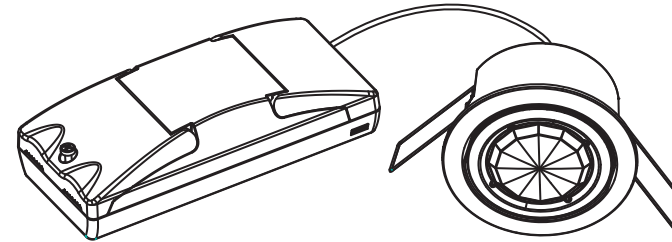   E: **sales@voltexelectrical.co.nz**
    www.voltexelectrical.co.nz

VOLTEX®

7 YEAR WARRANTY

PIG20221102-RG

VOLTEX®

Installation Guide
Dual Output Indoor FlushMount PIR Motion Detector
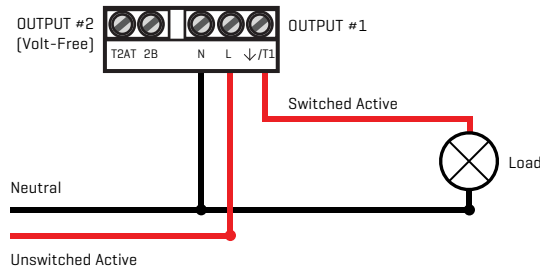IMS64-2

IMPORTANT

This device must be installed by a licensed electrical contractor or electrician and in accordance with national and local building regulations and the Australian and New Zealand wiring rules AS/NZS 3000 latest edition thereof.
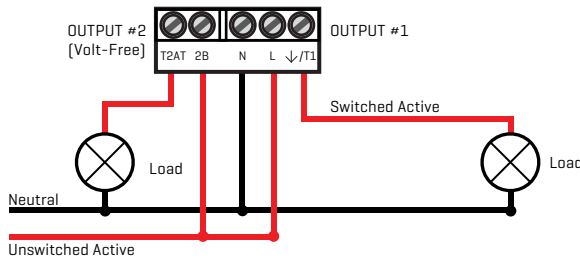
SPECIFICATIONS

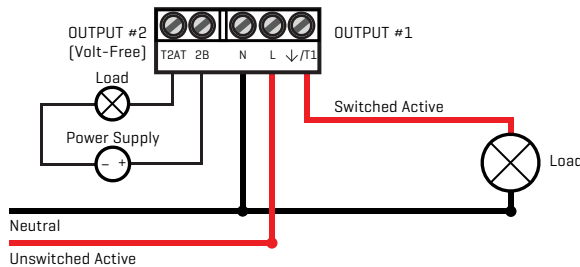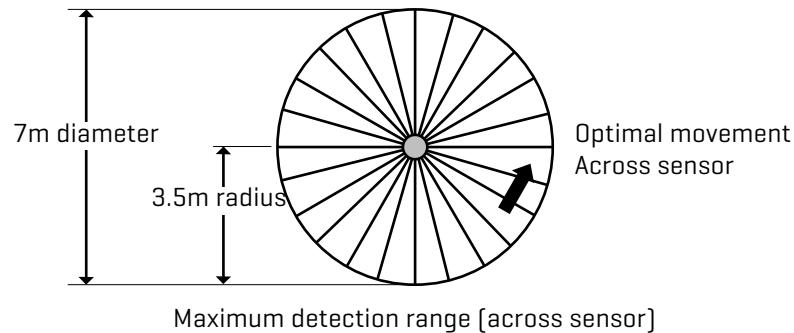|	
Rated voltage	220-240Vac, 50/60Hz
Output rating: Output 1 (T1)	Fluorescent or LED lighting: 300W
	Incandescent lighting: 1200W
	Halogen lighting: 850W
Output rating: Output 2 (T2)	Resistive / Inductive loads:
	3A @ 0.4 Power Factor, 12-250V ac
	3A @ 5-30V dc
	Note Output T2 is not suitable for capacitive loads such as LED Lighting
Environmental protection	IP23 from below, when installed
Operating Temperature	-20°C to 45°C
Detection range (across the sensor)	Approximately 3.5m radius / 7m diameter
	The detection range can vary depending on the ambient temperature
	The sensor is less sensitive when moving towards the sensor
Field of view	360°
Suitable mounting height	2.5m typical
	4.0m maximum
	1.7m minimum
Sensor warm-up time (after power-up)	60s
	The red LED illuminates during the warmup period
Time adjustment Output 1	30s-1m-5m-10m-20m-30m-TEST
Time adjustment Output 2	10s-1m-5m-10m-20m-30m-60m
Light Level (Lux) Adjustment	10-100-300-500-1000-2000 lux-Day Mode
	- Light Level operation is only linked to Output 1
	- Output 2 operates regardless of light level
	- In TEST mode, Light Level setting is ignored on Output 1
Cut-out size	Ø 64mm-68mm
Indicators	The red LED illuminates during warmup period (after power up)
	The red LED illuminates in Test mode when output 1 is on
	The red LED flashes 3 times after the Time or Lux dial is adjusted to confirm a Time/Lux change has been made

WIRING DIAGRAMS

**Sensor controlling
One 240Vac load**

OUTPUT #2 (Volt-Free)   OUTPUT #1
T2AT 2B   N   L   ↓/T1

Switched Active

Load

Neutral

Unswitched Active

**Sensor Controlling
Two Separate
240Vac loads**

OUTPUT #2 (Volt-Free)   OUTPUT #1
T2AT 2B   N   L   ↓/T1

Switched Active

Load

Load

Neutral

Unswitched Active

**Sensor Controlling
One 240Vac Load
and a separate
Low/Alternative
Voltage Load**

OUTPUT #2 (Volt-Free)   OUTPUT #1
T2AT 2B   N   L   ↓/T1

Load

Power Supply
− +

Switched Active

Load

Neutral

Unswitched Active

DETECTION RANGE

7m diameter

3.5m radius

Optimal movement
Across sensor

Maximum detection range (across sensor)

SENSOR LOCATION

- Ensure that the sensor is installed at least 1m from heat sources such as air conditioning vents
- Ensure that the sensor is installed at least 1m from the lights in a room
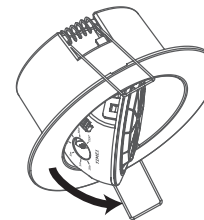
Ceiling Cut-out dimensions

The sensor is suitable for recessed mounting in a ceiling, between 1.7m and 4.0m high. To install the detector, cut a hole in the ceiling with a diameter of 64mm to 68mm.
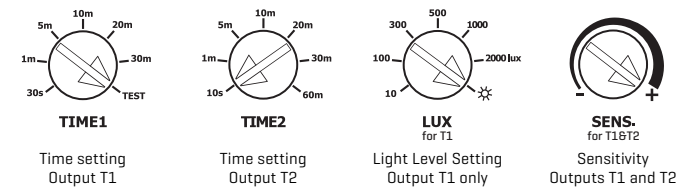
Ø64mm - 68mm

Hole cut-out 64mm - 68mm diameter
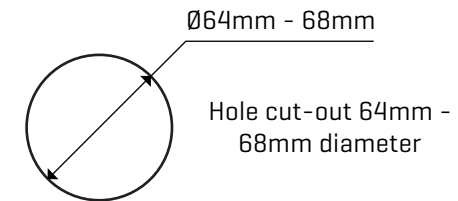
TIME / LUX / SENSITIVITY ADJUSTMENT

The adjustment dials can be accessed by tilting the centre part of the sensor.

The Time1 and Lux setting are on one side, the Time2 and Sensitivity on the other. Note: TIME2 only needs to be adjusted if the Output #2 is connected to a load

TIME1

5m 10m 20m
1m   30m
30s   TEST

Time setting
Output T1

TIME2

5m 10m 20m
1m   30m
10s   60m

Time setting
Output T2

LUX
for T1

300 500 1000
100   2000 lux
10   ☀

Light Level Setting
Output T1 only

SENS.
for T1&T2

− +

Sensitivity
Outputs T1 and T2

WALK TEST

- Wait 60 seconds for the sensor to warm up after it is powered on
- Set Time1 dial to "Test". Note that the Lux setting is deactivated in Test mode
- Conduct the walk test. Note that the sensor is more sensitive to movement across the detection range and less sensitive moving directly towards it
- In test mode, the output will switch ON for 3 sec for each movement detected and switch OFF for 2 seconds before the next trigger
- Use the Sensitivity dial to adjust the detection area
- When the walk test is complete, set the Time1 and the Lux dial to the required settings
- If output T2 is also used, set Time2 dial to the desired setting