Product Overview

The AX-OC-CW range of occupancy sensors are designed for use in energy savings systems where pet immunity is required and the lighting loads are automatically controlled based on human occupancy.

It detects movement using a PIR sensor and turn on the connected loads. There is an adjustable timer that switches off the load when the area is no longer occupied. The built-in light sensor aids additional energy savings in lighting control applications. The device will turn on the load only if the ambient light is below a preset level.

The unit is mounted on a single gang plate for easy installation.

Products Features

- Horizontal curtain detection pattern for pet immunity
- Up to 8 metre detection range
- 230Vac and 24V versions available
- Comes with 25mm Pattress box
- Built-in light sensor
- Touch switch to override the sensor (optional)

Product Specifications

Power supply:	230 Vac ± 10 % 230V versions
	24 Vac/dc ± 10 % for 24V versions
Power consumption:	1W maximum
Sensor type:	Infrared
Detection range:	8m
Field of view:	110° .See the detection pattern.
Output:	Supply voltage for switched live versions. SPST for volt free versions
Terminals:	Rising clamp for 0.5-2.5mm2 cable
Contact rating:	6A @ 240Vac resistive
Timer adjustability :	10 secs to 12 mins
Lux threshold:	0-1000lux. Onboard jumper to enable/disable jumper.
Ambient temperature range:	0°C to +50°C
Dimensions:	85 x 85 x 35 mm
Backbox depth:	Minimum 22mm
Weight:	120gms
Country of origin:	UK

Product Order Codes

Switched live	Volt free	Description
AX-OC-CW-24SL	AX-OC-CW-24VF	Wall mount curtain PIR sensor,24V
AX-OC-CW-230SL	AX-OC-CW-230VF	Wall mount curtain PIR sensor, 230V
		Add –O" for optional touch switch for overriding sensor
		Add –"65" for IP65 version

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Page 1

AX-OC-CW
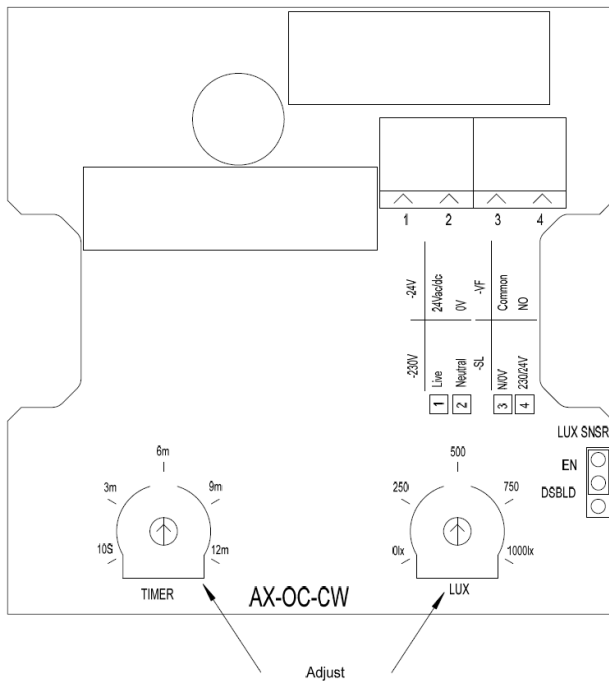## Wall Mount Occupancy Sensor With Curtain Detection Pattern

Installation

The AX-OC-W should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. The unit should be sited so that the detection pattern captures the normal occupancy positions inside the room.

Adhere to the following guidelines for the proper operation of the product.

- Switch off the power to the unit before performing any work on it.

- Avoid direct sunlight entering the sensor.

- Do not sight within 1 meter of any lighting.

- Do not position sensor within 1 metre of ventilation or forced air heating.

- Do not position sensor on a vibrating surface

Connections

Operation

The 'LUX' preset sets the ambient light threshold below which the output will be ON when the PIR sensor detects a motion. When movement stops, the device will turn off the output after a time period set by the 'TIMER' preset. Touch switch on the front side allows the user to override the sensor and manually turn on and off the output.

Unit will be in 'AUTO' mode when it is powered up. Touch the switch to override the sensors and turn ON the relay. Touch again to turn OFF the relay.

The LED will light up or blink when the unit detects motion or change status.

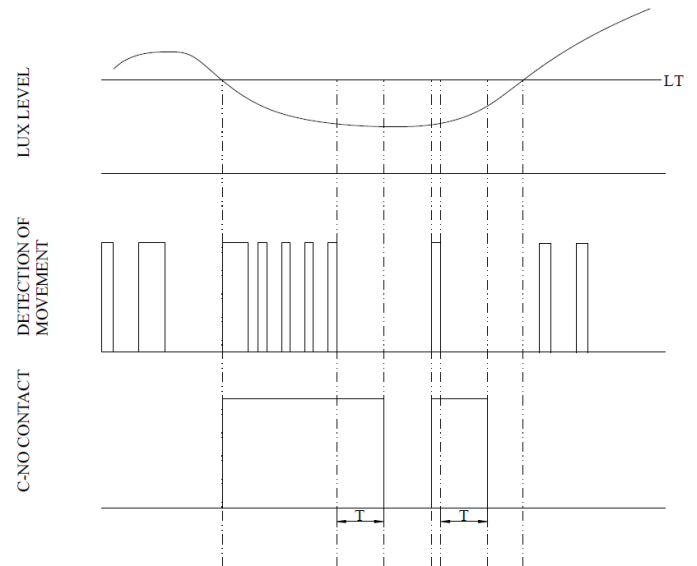Blinking Green LED - Motion detected in AUTO mode. Relay is ON.

Blinking Red LED - Motion not detected in AUTO mode. Relay is OFF.

Constant green LED - (- O versions only) Relay is ON.

Constant Red LED - (- O versions only) Relay is OFF.

Alternating green and red - Sensor Error

LUX sensor can be disabled using the onboard jumper. Once disabled, the unit will switch ON and OFF based on motion detection only.
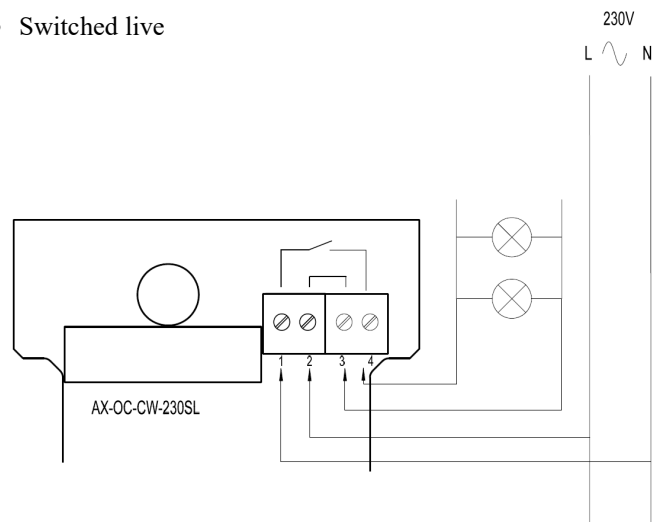

LT - Lux threshold set by LUX preset

T - Timer period set by TIMER preset

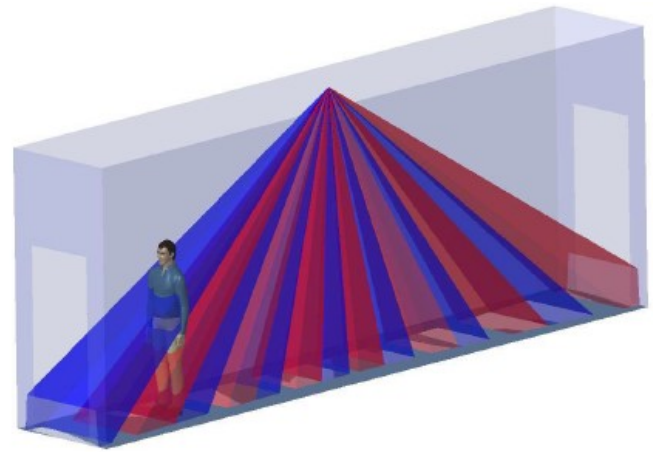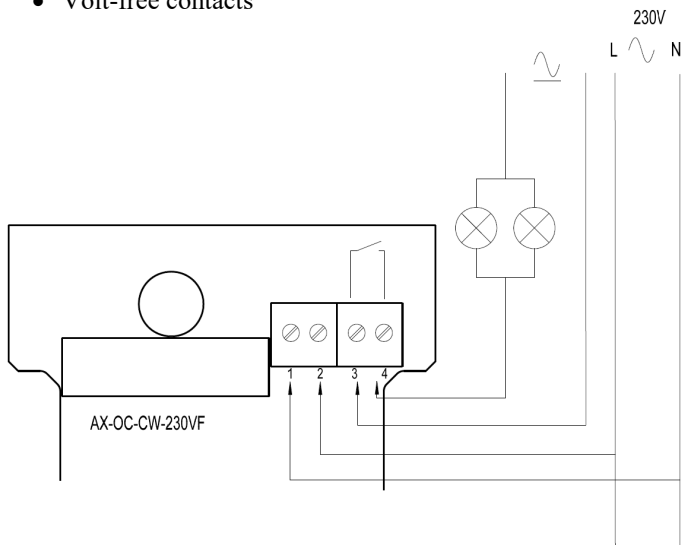Operation in 'Auto' mode

Typical Wiring Diagrams

- Switched live

- Volt-free contacts

AX-OC-CW-230VF
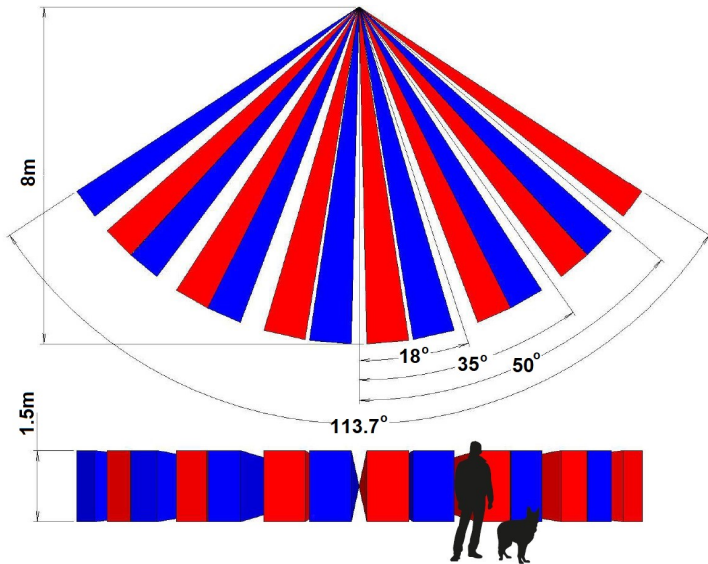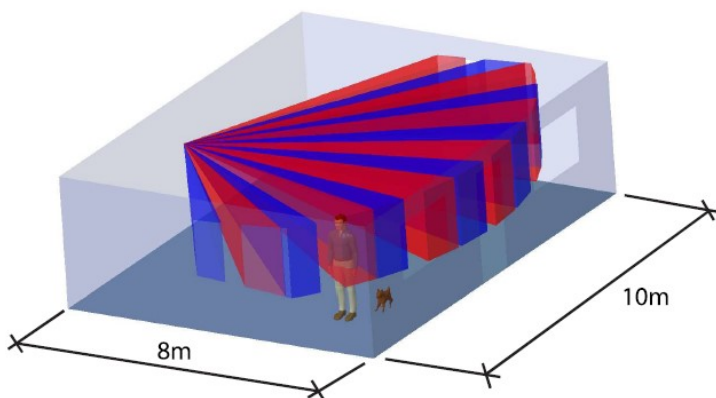

Typical application 2: Ceiling mounted in corridors. Detector is immune from air movement around windows and doors

Detection Pattern

Optional Accessories

Typical Applications

Typical application 1: Sensor mounted 1.5 meters above floor level. Detects human, Immune to pets.

Datasheet Contents

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