

## Stepped Dim Microwave Movement Sensor

- This product is fitted with a stepped dim microwave movement sensor. Please see below detailed operating instructions.

### MULTI-FUNCTION SENSOR SPECIFICATIONS:

Operating voltage	220-240Vac, 50/60Hz
Output constant current	300mA / 350mA, set via DIP switch
Output voltage	28-48Vdc
Efficiency	≥80%
Power factor	≥0.9
HF system	5.8GHz ± 75MHz, ISM wave band
Transmitting power	<0.5mW
Detection zone max.	16m (D) x 6m (H)
Detection sensitivity	10% / 50% / 75% / 100%
Hold time	5s / 90s / 3 min / 10 min
Corridor function	0s / 30s / 10 min / Disable
Daylight sensor	5lux / 15lux / 50lux / Disable
Standby dimming level	10% - can be customised
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150° (wall installation) / 360° (ceiling installation)

### UNDERSTANDING THE CONTROLS:

Refer to the table (**Fig. 1**) below.

The sensor is an active motion detector: it emits a high frequency electromagnetic wave 5.8GHz and receives its echo. The sensor detects the change in echo from movement in its detection zone. A microprocessor then triggers the switch light ON command. Detection is possible through doors, panels of glass and thin walls.

#### DETECTION AREA:

This determines the effective range of the motion detector and is set up by DIP switches at the sensor, refer to **Fig. 2** opposite. Note that reducing the sensitivity will also narrow the detection range.

The following settings are available:

- I - Detection Range 100%
- II - Detection Range 75%
- III - Detection Range 50%
- IV - Detection Range 10%

#### HOLD TIME:

This determines the time the fitting remains at 100% level on motion detection and is set with DIP switches at the sensor, refer to **Fig. 2** opposite. The walk test setting is useful when installing the fitting to establish correct operation and range.

The following settings are available:

- I - Walk test mode 5s
- II - 90s
- III - 3 minutes
- IV - 10 minutes

#### DAYLIGHT SENSOR:

This setting holds off the 100% light output should there be sufficient daylight and is set using DIP switches at the sensor, refer to **Fig. 2** opposite.

The following settings are available:

- I - Photocell disabled
- II - 50 lux twilight operation
- III - 15 lux twilight operation
- IV - 5 lux darkness operation only

\*In daylight setting the lamp(s) will always be on with motion detected and operate at 100% light output, even in bright daylight.

#### CORRIDOR FUNCTION:

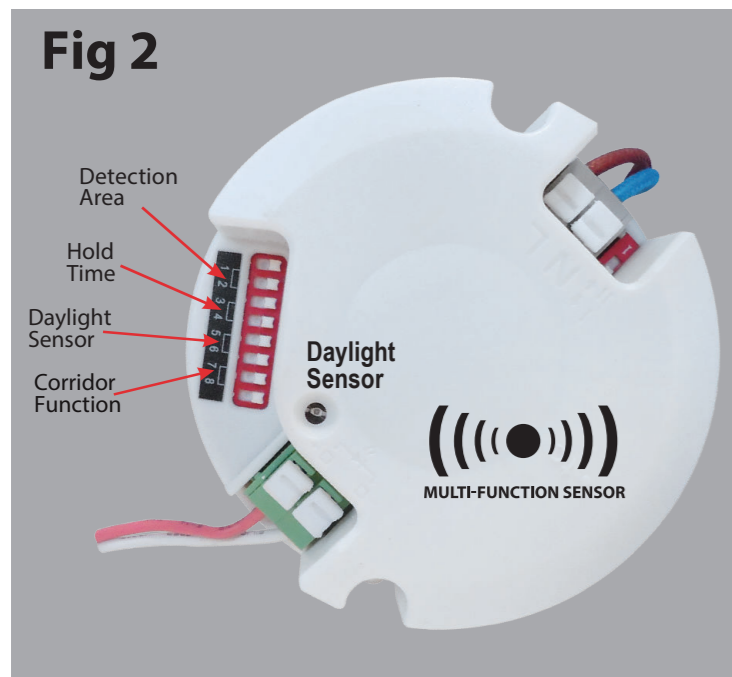
This setting determines how long the fitting should operate at 10% output after the hold time has elapsed and is set by DIP switching at the sensor, refer to **Fig. 2** opposite.

**NOTE:** Setting at 0s disables this function; setting at + ∞ leaves it permanently at 10% output until activated again.

The following settings are available:

- I - 0s
- II - 30s
- III - 10 minutes
- IV - + ∞

**Fig 2**



**Fig 1**

ON	Detection Area				Hold Time				Daylight Sensor				Corridor Function			
	1	2			3	4			5	6			7	8		
I	ON	ON	100%		I	ON	ON	5s	I	ON	ON	Disable	I	ON	ON	0s
II	-	ON	75%		II	-	ON	90s	II	-	ON	50Lux	II	-	ON	30s
III	ON	-	50%		III	ON	-	3min	III	ON	-	15Lux	III	ON	-	10min
IV	-	-	10%		IV	-	-	10min	IV	-	-	5Lux	IV	-	-	+ ∞

## Care and Safety

- We recommend cleaning with a soft dry cloth. Do not use solvents or abrasive cleaners as these could damage the finish.
- For your safety, always switch off the power supply before cleaning.

## Instruction leaflet

# Forca CCT Stepped Dim LED Bulkhead

77900



saxby  
lighting

CE

V3 27/03/2021

Thank you for purchasing this light fitting. Please read the instructions carefully before use to ensure safe and satisfactory operation of this product. Please retain these instructions for future reference.

## Warning

 **This product is Class 2 (double insulated) and must not be earthed.**

Please read these instructions carefully before commencing any work.

This unit must be fitted by a competent and qualified electrician.

Install in accordance with IEE Wiring regulations and current Building Regulations.

To prevent electrocution switch off at mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electrical supply without your knowledge. If you are in any doubt, please consult a qualified electrician.





This light fitting should be connected to a circuit with a 30mA RCD fitted.

If replacing an existing fitting, make a careful note of the connections.

This product contains non-replaceable parts and cannot be serviced. If damage occurs the part should be scrapped.

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

## Technical data

Supply Voltage:	240V~, 50 Hz
Bulb Type:	18W LED module (SMD) CCT / K: 3000/4000/6500
	Conformity with all relevant EC Directive requirements.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.
	The power supply is Double Insulated and does not require connection to an Earth circuit.
	This product is not suitable for dimming.
<b>IP65</b>	This product is rated at IP65.

## Layout

- Plan the desired layout of this fitting carefully, ensuring the cables will reach the distance between the junction box and the light fitting.
- Avoid locating any cables in positions that would cause a hazard. Position cables and junction boxes (not supplied) away from areas where they may be at risk from being cut, trapped or damaged.
- The mains supply cable must have a minimum cross sectional area of 1.0mm<sup>2</sup>.
- Cables must be protected using suitable conduit or plastic trunking.
- The products can be wall or ceiling mounted. If wall mounting ensure that the power supply is at the bottom.

## Individual casings

The following individual casings are available for purchase separately.

77904 : White plain    77907 : Grey plain    77910 : Black plain    77913 : Chrome plain

77905 : White eyelid    77908 : Grey eyelid    77911 : Black eyelid

77906 : White grill    77909 : Grey grill    77912 : Black grill

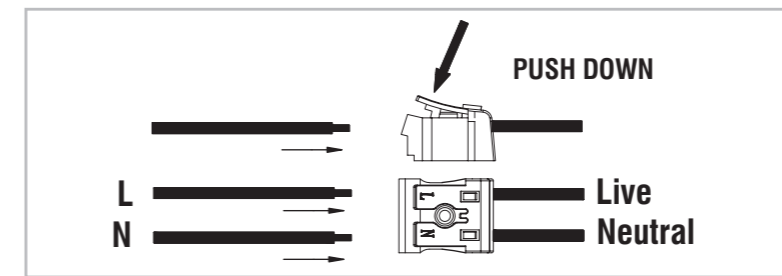
## Installation

Existing fittings must be completely removed before installation of a new product. Before removing the existing fitting, **carefully note the position of each set of wires.**

- Remove the 4 fixing screws and detach the shade. Keep safe for refitting later.
- Hold the product in place and mark the position of the holes. Ensure the wall is capable of holding the weight of the product, or if fitting to a ceiling, ensure there is a joist at the point of fixing to support the weight of the product.
- Knock out the chosen fixing holes.
- Fix into position. Take care to avoid damaging any concealed wiring and pipes. The correct fixings should be used for brick, cavity walls or plasterboard.
- Pierce a hole in the grommet, and pull the cable through.
- Wire as detailed below.

## Wiring

- This product is double insulated and must not be earthed. If there are any incoming earth cables, they must be joined together and well insulated with good quality insulation tape. This is to ensure earth continuity throughout your property.
- Having correctly identified the wiring from your existing light fitting, connect to the quick fit connection block in the following way:



## Check that...

- You have correctly identified the wires.
- The connections are tight.
- No loose strands have been left out of the connection block.

## Commissioning




- Ensure that the screws and cable entry points are sealed to maintain the IP rating of the product.
- Refit the shade, ensuring that the seals are correctly located.
- Gently push your chosen casing onto the shade until it clips in place.
- Replace fuse or circuit breaker and switch on. Your light is now ready for use.

## Fitting/replacing bulbs

- This system contains non-replaceable parts and cannot be serviced. If damage occurs the part should be scrapped.

## CCT Function

- The colour is changeable between 3000K-4000K-6500K, using the switch inside the product.

<b>A</b>	<b>WARM WHITE</b>	<b>3000K</b>			
<b>B</b>	<b>COOL WHITE</b>	<b>4000K</b>			
<b>C</b>	<b>DAYLIGHT WHITE</b>	<b>6500K</b>			

**A      B      C**