KSRSF393

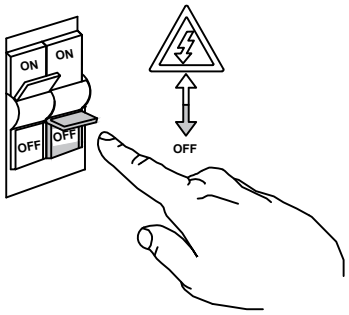
Plug in Microwave Sensor c/w Corridor Function

This product is suitable for indoor or outdoor use

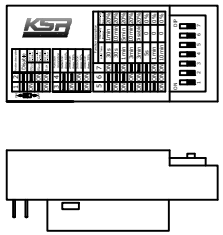
Installation Instructions

Read these instructions before commencing installation. Please give these instructions to the owner/occupier after installation to retain for future reference/maintenance.

1 **Isolate mains supply.**

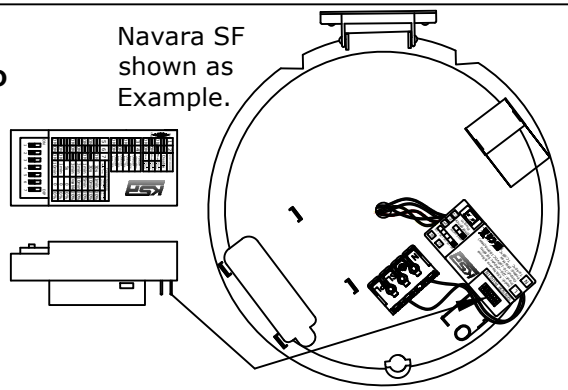


2



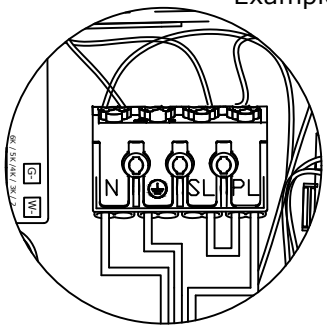
Refer to the Instructions supplied with the main fitting for opening & fixing the fitting ready for the plug & play MW / CF Sensor.

3 **Plug the MW / CF sensor directly into the LED driver within the fitting (SENSOR PLUG) ensuring the pins are located correctly & the sensor is held in place.**

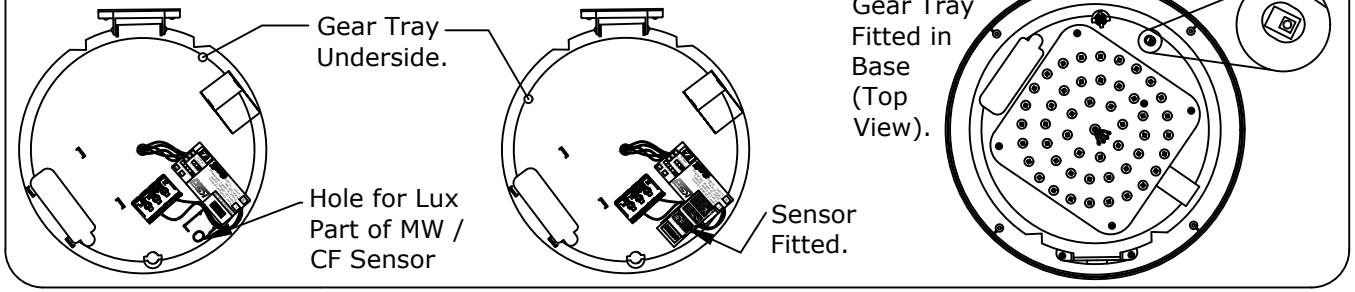


Once the MW / CF sensor is correctly located into the driver / holder please set up the dip switches to the desired Microwave or Corridor Function settings as per Steps 6 & 7.

4 **If your fitting has an Emergency pack included, you may wish to remove the Switch Live and link across from the Permanent Live so the sensor does the switching.**



5 **Please ensure the Lux part of the sensor is visible / located directly over the hole (as shown) enabling it to work through the Gear Tray.**



6 **Dip Switches 1 - 4 are set up the same regardless of MW or CF - Its only dip switches 5 - 7 that determines Microwave or Corridor Function**

ON / OFF

1	2	Lux
▬	▬	Disable
ON	▬	50Lux
▬	ON	25Lux
ON	ON	2Lux

3	4	Sensitivity
▬	▬	100%
ON	▬	75%
▬	ON	50%
ON	ON	25%

7

For On / Off Standard Microwave Set up dip switches as one of the below.

ON / OFF

5	6	7	Hold Time	Hold Time	
▬	▬	▬	5s	0	▬
▬	ON	ON	1min	0	▬
ON	ON	ON	10min	0	▬

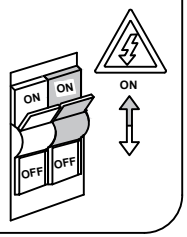
For Corridor Function MW Set up dip switches as one of the below.

5	6	7	Hold Time	Hold Time	
▬	▬	ON	30s	1min	20%
ON	▬	▬	30s	10min	20%
ON	▬	ON	1min	5min	20%
▬	ON	▬	3min	10min	20%
ON	ON	▬	3min	Disable	20%

See Page 3 for full set up & details.

Re-assemble the fitting by following the steps provided in the instruction sheet supplied with the Bulkhead / Gear Tray.

8 **Turn on mains supply and test.**



KSRSF393-NIS-A-PJL

5 YEARS WARRANTY

IP20

Important Information

Read these instructions before commencing installation. Please give these instructions to the owner/occupier after installation to retain for future reference/maintenance.

Install Information

It is recommended that these luminaires are installed and fitted by a qualified electrician ensuring the installation complies with current wiring regulations & local building control.

These products are designed for connection to a 240V~50Hz supply. Any faulty, broken or damaged luminaires should be replaced immediately. KSR will not accept responsibility for any claims arising from a poor installation. Please Note: The limited warranty shall be deemed null and void in the following circumstances: Failure by the installer, end user or any third party to exercise caution to protect any covered product or part from outside damage, adverse temperature (normal operating ambient temperature 0 ~ +35°C), humidity conditions, fluctuations in the electrical system or physical abuse as well as failure related to workmanship in the installation of the products or parts.

Important User Advice

Always switch off mains supply before servicing. If this luminaire is suitable for indoor use only it should not be fitted to damp or wet surfaces such as freshly plastered or painted walls or ceilings. Do not use Megger or similar high voltage instruments. Due to the fact LED luminaires contains electronic components that maybe damaged by high test voltages, they must be disconnected from the circuit before testing. To prevent damage to the driver, do not mix with conventional magnetic ballasts on the same electrical circuit.

Please note: Depending on the amount of fittings on a circuit you may have to upgrade the breaker type due to the way electronic LED drivers start up with higher inrush currents compared to halogen lighting. If a dimmable fitting see the recommended dimmers list @ www.ksrlighting.com as well as available LDT Files. For any other questions please call our After Sales on 02392 674343

External Products

All of our external fittings must be installed by a qualified electrician and adhere to the regulations required for the installation. It is also recommended a quarterly cleaning schedule for products to be wiped down with a soft cloth, a petroleum based protective substance similar to WD40 can be used for extra protection against the elements. It is also recommended that all fixings and moving parts are greased prior to installation and again quarterly if required. Do not try to seal any exterior product yourself.

Waste Electrical and Electronic Equipment (W.E.E.E.)

Under the Waste Electrical and Electronic Equipment (WEEE) Regulations, any KSR Lighting product displaying the crossed-out wheeled bin symbol must not be disposed of with general household or commercial waste. KSR Lighting does not charge customers any additional fees for the collection, treatment, recycling, or disposal of WEEE-compliant products. To help protect the environment and human health, end-of-life electrical products should be separated from other waste streams and disposed of through appropriate recycling facilities. Correct disposal enables valuable materials to be recovered and reused while reducing the environmental impact of waste. Customers are encouraged to contact their local authority, recycling centre, or retailer for information on available collection and recycling services in their area. Where a WEEE disposal charge was included by the supplier at the time of purchase, customers should contact that supplier directly regarding any take-back arrangements and the appropriate disposal of the product.

Warranty

All products carry at least a 1 year warranty, some items are 3 years and the majority of the range is 5 years, please go to www.ksrlighting.com for full warranty details - Should a product fail within the warranty period, KSR will repair or replace. KSR will not accept any responsibility for costs associated to the replacement of the product.

KSR Lighting Ltd, Optimum House, Beeding Close,
Southern Cross Trading Estate, Bognor Regis, West
Sussex, PO22 9TS.

Contact KSR After Sales :-
02392 674343
aftersales@ksrlighting.com

KSRSF393

Plug in Microwave Sensor c/w Corridor Function - Info Page

This product is suitable for indoor or outdoor use

Installation Instructions

Read these instructions before commencing installation. Please give these instructions to the owner/occupier after installation to retain for future reference/maintenance.

This **Microwave** / **Corridor Function** sensor is a motion activated switch, it will turn the light on when movement is detected, then hold the light on for the determined amount of time (if required), after which the light will turn off. This microwave sensor comes with a step-dim feature which is preset by the installer according to their specific requirements
Using the Dip Switches on the sensor, set it up to your preferred Detection area, Hold Time & Daylight level.
Microwave sensors will detect movement through certain materials (brick, wood, glass etc), if this occurs reduce the detection area until any nuisance triggering stops - **Note: Never change the dip switches with the power on.**

Dip switches 1 & 2 - Daylight Sensor + 3 & 4 - Sensitivity / Detection Area to be set up the same regardless of standard microwave or Corridor function, it is ONLY how dip switches 5, 6 & 7 are set that will determine if Microwave or Corridor Function.

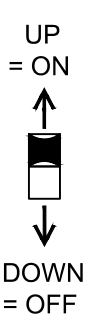
Microwave & Corridor Function :-
Set up dip switches 1 - 4 as one of the below configurations for both MW & CF.

1	2	Lux
▬	▬	Disable
ON	▬	50Lux
▬	ON	25Lux
ON	ON	2Lux

1 & 2 = Daylight Sensor
The daylight sensor can be set to bring the light 'on' at specific daylight levels. To have the sensor function in daylight set the Dip Switches to Disable.

3	4	Sensitivity
▬	▬	100%
ON	▬	75%
▬	ON	50%
ON	ON	25%

3 & 4 = Sensitivity / Detection Area
Sensitivity area can be reduced by selecting the combination on the Dip switches as shown.



See Overleaf for Examples.

For standard **ON / OFF Microwave** please set up Dip switches 5, 6 & 7 as one of the following combinations

5	6	7	Hold Time	Standby Time
▬	▬	▬	5s	▬
▬	ON	ON	1min	▬
ON	ON	ON	10min	▬

5, 6 & 7 = Hold Time,
Hold time means the time period you would like the light to remain on once no movement is detected before turning off.

For **Corridor Function** please set up Dip switches 5, 6 & 7 as one of the following combinations

5	6	7	Hold Time	Standby Time	
▬	▬	ON	30s	1min	20%
ON	▬	▬	30s	10min	20%
ON	▬	ON	1min	5min	20%
▬	ON	▬	3min	10min	20%
ON	ON	▬	3min	Disable	20%

5, 6 & 7 = Hold Time, Stand by Time & Dimming Level
Hold time means the time period you would like the light to remain on once no movement is detected. The stand by time is the length of time the fitting remains on at the dimmed level of 20%, disabled denotes infinite.

Troubleshooting

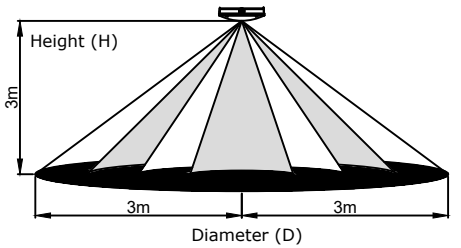
Issue	Cause	Solution
The load will not illuminate	Incorrect daylight threshold setting selected	Adjust setting and retest (**25 or 50 Lux** normally) unless required to work at day & night then **Disable**
	Load has failed (Sensor, Driver or LED array)	Check Sensor correctly located / Replace load / LED's plugged in
The load is permanently illuminated	Continuous movement in the detection area	Check detection area setting (can trigger through certain surfaces)
	The lamp (containing sensor) is installed in an area too close to reflective surface, i.e Metal, Glass or white walls etc.	1. Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces 2. Reduce Sensitivity (detection area)

Recommended Installation heights for Optimum detection area.

For Wall mounting the recommended height is 1.5m
For Ceiling mounting the max recommended height is 3m

Detection Zone Max. (D x H): 6m x 3m

Detection Angle. 360°



KSRSF393-NIS-A-PJL

5 YEARS WARRANTY

IP20

KSRSF393

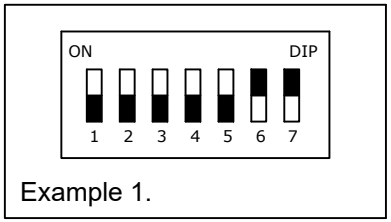
Plug in Microwave Sensor c/w Corridor Function - Info Page

This product is suitable for indoor or outdoor use

Installation Instructions

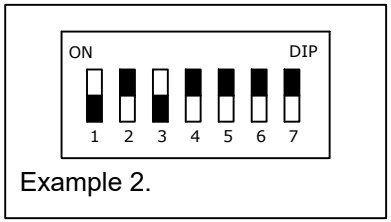
Read these instructions before commencing installation. Please give these instructions to the owner/occupier after installation to retain for future reference/maintenance.

ON / OFF Standard Microwave set up examples



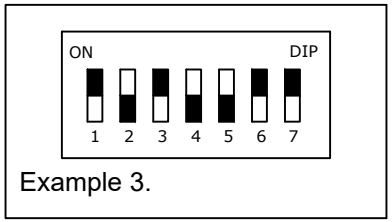
Example 1.

Lux Disabled (will work in light & dark) 100% detection area & 1 minute hold time (this starts when nothing is in sensitivity / detection zone) before turning off



Example 2.

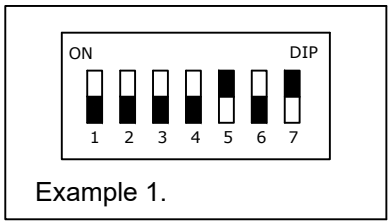
Lux on 25% (needs to be below this light level to work) 50% sensitivity / detection area & 10 minute hold time (this starts when nothing is in detection zone) before turning off



Example 3.

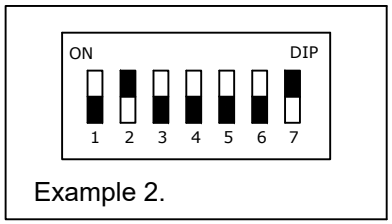
Lux on 50% (needs to be below this light level to work) 75% sensitivity / detection area & 1 minute hold time (this starts when nothing is in detection zone) before turning off

Corridor Function set up examples



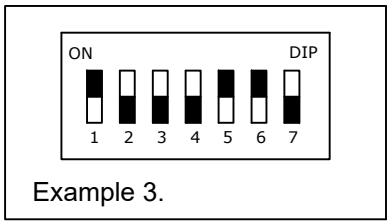
Example 1.

Lux Disabled (will work in light & dark) 100% sensitivity / detection area & 1 minute hold time (how long the fitting stays at full brightness) before reducing to 20% light level for 5 minutes (Stand by time, this starts when nothing is in the detection area) before turning off.



Example 2.

Lux on 25% (needs to be below this light level to work) 100% sensitivity / detection area & 30 second hold time (how long the fitting stays at full brightness) before reducing to 20% light level for 1 minute (Stand by time, this starts when nothing is in the detection area) before turning off.



Example 3.

Lux on 50% (needs to be below this level to work) 100% sensitivity / detection area & 3 minute hold time (how long the fitting stays at full before reducing to 20% light level, if Disabled this is infinite (Stand by time, this starts when nothing is in the detection area) and will stay on at the reduced rate until (unless triggered) the light level is above 50 Lux (If Lux disabled then it will never turn off).

5 YEARS WARRANTY

IP20