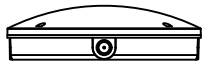
Installation Sheet KSRSF335  Navara SF Select & 5CCT Emergency Bulkhead Corridor Function & MW

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

Available Rims: Various please visit www.ksrlighting.com for options

IP65 IK10 240V~50Hz 9W/14W/18W

These fittings are Class II and do not need an Earth, but Earth provision is provided.

Important 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°C - +30°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.
Do not use Megger or similar high voltage instruments. Due to the fact this luminaire 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. At the end of life the luminaire is classed as WEEE under directive 2014/30/EU and should be disposed of in accordance with local legislation.

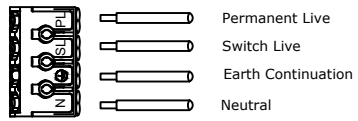
Installation Procedure

Isolate mains supply before installation. Unscrew the four diffuser screws and remove the diffuser. Unlock the LED tray by turning the retaining lug anti-clockwise as shown in Fig.1 and lift the hinged tray to gain access to the wiring terminals. Pass intended supply wires through grommet ensuring a water tight seal is maintained. Ensure the fixing surface is flat and even.
Fix base to the wall, ceiling or besa box using adequate fixings with regard to the type of surface. Ensure incoming cables are protected. Terminate wiring as per Fig. 2, please note an Earth terminal is only supplied to aid the continuation of the Earth circuit. Please ensure battery is connected. Select LED colour and wattage required using the switches on the LED driver Note: Never change the LED colour or wattage with the luminaire powered on as this can damage the luminaire. Fig. 3. See next page for Corridor Function & MW Senor info & set up. Proceed to Re-secure the LED tray by turning the retaining lug clockwise. Make sure the seal is in place in the diffuser and undamaged.Replace the diffuser re-secure using the four retained screws.Turn on the mains supply and test luminaire. If using an optional rim clip the rim over the fitting.

This fitting requires a 24 Hour initial charge period prior to any emergency testing, please see overleaf for testing routine, write on the battery label in permanent ink the date of commissioning. All results must be recorded and left with the end user. The battery has a design life of at least 4 years (3 year warranty) but should be replaced if the duration of operation is less than 3 hours after a 24hr charge time with no interrupted supply.

Upon installation - in Instances where there is no 'Switch Live' Please put a link across from Permanent Live to Switch Live.

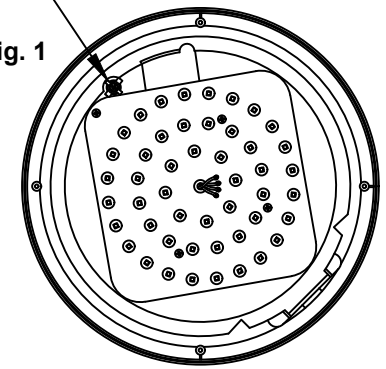
Fig.2



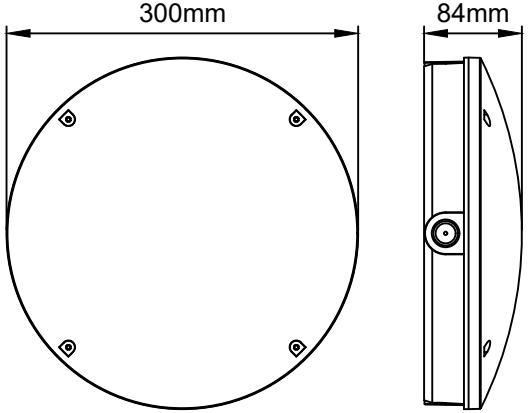
This product contains a light source of energy efficiency class F. The LED light source and Control Gear in this product is replaceable by a professional.

Gear Tray Retaining Lug

Fig. 1



LED Driver, EM Module & Sensor on underside of the Gear tray.



Corridor Function Sensor & MW Dip Switches - Please refer to Page 2 for Settings & Sensor set up info.

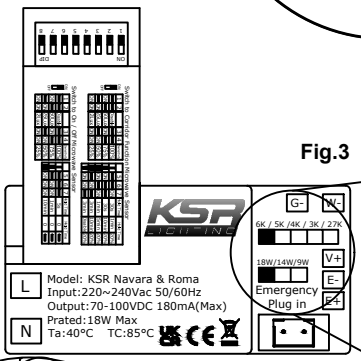
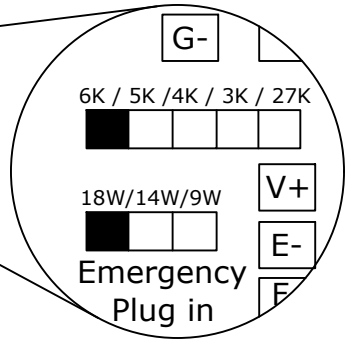
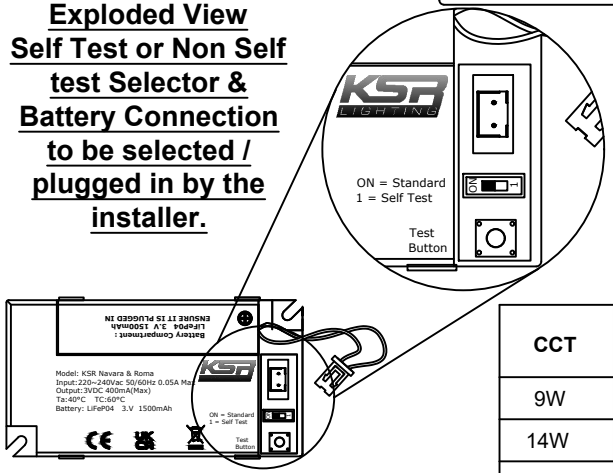


Fig.3



Exploded View Self Test or Non Self test Selector & Battery Connection to be selected / plugged in by the installer.



Exploded View of Wattage & CCT Selector switches located on the end of the driver as shown Never change these whilst the power is on.

CCT	Lumen output				
	2700K	3000K	4000K	5000K	6000K
9W	1155lm	1205lm	1245lm	1235lm	1195lm
14W	1475lm	1515lm	1655lm	1630lm	1545lm
18W	1810lm	2015lm	2125lm	2100lm	2010lm

Other versions are available, Standard, Microwave - Also available are Various trims - for both internal & external (with knockouts) - Plain, Eyelid & Grille.

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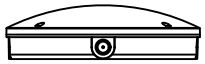
E-mail: aftersales@ksrlighting.com

Installation Sheet KSRSF335



Navara SF Select & 5CCT Emergency Bulkhead

Corridor Function & MW

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

This Corridor Function / Microwave 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, 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

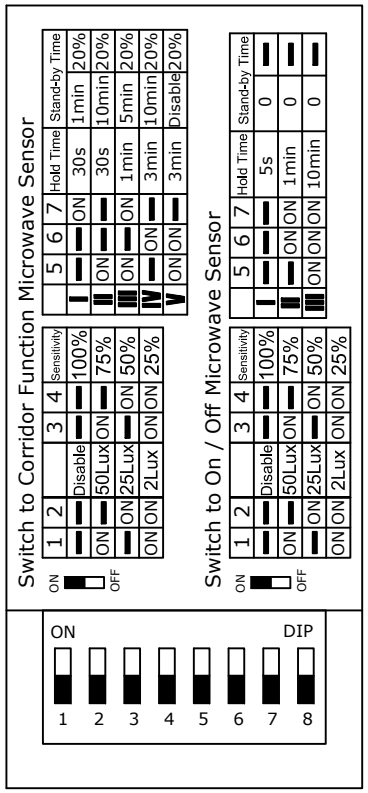
Using the Dip Switches on the sensor, set it up to your preferred Detection area, Hold Time & Daylight level.

Microwave sensors will detect movement through certain materials, if this occurs reduce the detection area until any nuisance triggering stops.

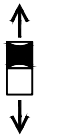
Troubleshooting

Issue	Cause	Solution
The load will not illuminate	Incorrect daylight threshold setting selected	Adjust setting and retest
	Load has failed (driver or LED array)	Replace load
	No mains power detected	Switch on power
The load is permanently illuminated	Continuous movement in the detection area	Check detection area setting
	The lamp (containing sensor) is installed in an area too close to reflective surface, i.e Metal, Glass or Concrete walls.	1. Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces 2. Reduce Sensitivity (detection area)

Enlarged view of integral sensor



UP = ON



DOWN = OFF

Corridor Function Microwave Sensor

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.

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

3 & 4 = Sensitivity Area
Sensitivity area can be reduced by selecting the combination on the Dip Switches, following the guide as shown here.

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

5, 6 & 7 = Hold Time, Stand by Time & Dimming Level.
Hold time means the time period you would like the light to remain at 100% output once no movement is detected. The Stand by time is the length of time the fitting remains on at the dimmed level of 20%

	5	6	7	Hold Time	Stand-by Time	
I	▬	▬	ON	30s	1min	20%
II	ON	▬	▬	30s	10min	20%
III	ON	▬	ON	1min	5min	20%
IV	▬	ON	▬	3min	10min	20%
V	ON	ON	▬	3min	Disable	20%

On / Off Microwave Sensor

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 Area
Sensitivity area can be reduced by selecting the combination on the Dip Switches, following the guide as shown here.

	5	6	7	Hold Time	Stand-by Time	
I	▬	▬	▬	5s	0	▬
II	▬	ON	ON	1min	0	▬
III	ON	ON	ON	10min	0	▬

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

Microwave Specification

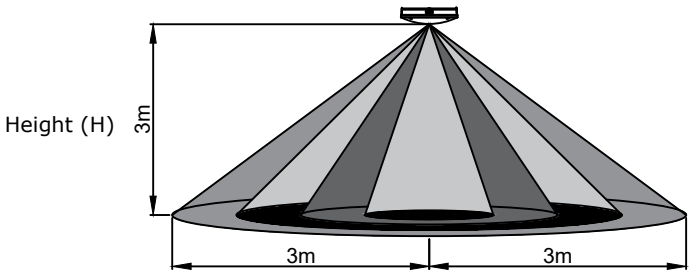
Mains Input - 220-240VAC
Lux Control - 2 - 50 Lux or Disable
Time Setting - Min = 5 Seconds +/- 1 Seconds
Max = 10 Minutes +/- 1 Minute
Rated Load - LED = 25W
Frequency - 5.8GHz
Detection Area - 360 Deg
Detection Distance - 6 Metres - Adjustable
Parasitic Power - 0.5W
Installation Height - 3 Metres

Recommended Installation heights

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°



KSR LIGHTING

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

All tests must be undertaken at times of least risk and in accordance with the latest standards as indicated below:

Daily:
LED charge indicators shall be visually inspected for correct operation.

Monthly:
(in addition to the daily check) If automatic testing devices are used, the results of the short duration tests shall be recorded. Test shall be carried out as follows:

1. Switch the luminaire over to emergency mode to operate from the batteries by simulating a failure of supply to the emergency circuit for a period sufficient to ensure correct luminaire operation.

Note: The period of simulation failure should be sufficient for the purpose of this clause whilst minimising damage to the system components e.g lamps. During this period, all luminaires shall be checked to ensure that they are present, clean and functioning correctly. At the end of this test period, the unswitched supply should be restored and any indicator lamp or device should be checked to ensure that is showing that the supply has been restored.

Annually:
If automatic testing devices are used, the results of the short duration tests shall be recorded. For all other systems the monthly inspection shall be carried out and the following additional tests made:

1. Each luminaire shall be tested monthly as above but for its full duration in accordance with the manufacturer's information.
2. The unswitched supply for the luminaire should be restored and any charge indicator lamp or device should be checked to ensure that it shows the unswitched supply has been restored. The charging arrangements should be checked for proper functioning.
3. The date of the test and its results shall be recorded in the system logbook.

A copy of this report must accompany any emergency luminaire returned to KSR Lighting for any reason.

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Emergency Lighting Periodic Test Schedule

All emergency lighting should be installed and tested in accordance to the latest standards. This test schedule should remain onsite and be accessible to the relevant authorities on request.

Em No.	Luminaire Location	Luminaire Type	Start Time	Duration (Mins)	*Pass/Fail	Comments/Actions

× √=Pass, X=Fail, N/T=Not Tested, N/A=No Access, U/T=Uncomplete Test

Site Address:

Test Conducted By:

Date of Test Completion:

Comments/Actions

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Self Test Emergency Inspection/Testing Instructions

All full duration tests should be where possible be undertaken at times of low risk adjacent emergency luminaires we recommend that you you reset the inbuilt timer or run a manual 30 day test on alternate emergency luminaires to stagger testing times. Once commissioned fill in the date of the first test/install date this will allow the end user to monitor and record subsequent test information on the supplied report. All tests with the exception of the visual inspection will be completed automatically at the relevant times including battery charge condition and lamp status.

Daily:
Visual inspection of the battery charge LED.
Automatic Monthly (Every 30 Days):
(in addition to the daily check) The results of the short duration test shall be recorded.
Automatic Annually (Every 180 & 360 Days):
(in addition to the daily check) The results of the full duration tests shall be recorded.

A copy of this report must accompany any emergency pack returned to KSR Lighting for any reason.

Performance Indicators	
Normal Operation	Red LED off, Green LED Solid
Automatic 30 Day Test	Red LED off, Green LED flashing once a second
Automatic 180/360 Day Test	Red LED off, Green LED flashing twice a second
Manual Simulated Power Failure	Red LED off, Green LED off
Manual 30 Day Test	Red LED off, Green LED flashing once a second
Manual 180/360 Day Test	Red LED off, Green LED flashing twice a second
Manual Fast Test (24 minutes)	Red LED off, Green LED four times a second

Manual Testing - **Can only be completed under mains conditions**	
Manual Simulated Power Failure	Hold test button until you hear 1 beep
Manual 30 Day Test	Hold test button until you hear 2 beeps
Manual 180/360 Day Test	Hold test button until you hear 3 beeps
Manual Fast Test (24 minutes)	Hold test button until you hear 4 beeps
Abort Test	Hold test button for 1 second
Reset Inbuilt Timer	Hold test button for 15 seconds long beep

Fault Indicators	
Battery/Charging Fault	Red LED flashing once a second, Green LED off, Beeps twice every minute until fault rectified
Lamp Fault	Red LED flashing twice a second, Green LED off, Beeps twice every minute until fault rectified
Failed Duration Test	Red LED solid, Green LED off, Beeps twice every minute until fault rectified

Fault Indicator - <u>LED SOLID RED</u>
This means the batteries have been totally depleted and will require a hard reset - This is done by, with the unit still fully powered, unplug the battery connector and plug back in. If this does not resolve the issue, please call KSR Aftersales.

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KSR Lighting Self Test Emergency Install/Inspection/Test Record

Product Code:	Product Description:
Product Location:	
Commissioning Date:	Commissioned By:

Month	Test	Year:		Year:		Year:		Year:		Year:	
		Sign	Date	Sign	Date	Sign	Date	Sign	Date	Sign	Date
01	Function										
02	Function										
03	Function										
04	Function										
05	Function										
06	Duration										
07	Function										
08	Function										
09	Function										
10	Function										
11	Function										
12	Duration										