Installation Sheet KSR98189

Navara X & X-IP Select Emergency Pack Plug & Play - Standard or Self-Test

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

IP20 UKCA CE 230-240VAC~50/60Hz 3W Max

This Emergency pack is Class II and does not require an Earth

Important Information

It is recommended that the luminaires and this Emergency Pack are installed and fitted by a qualified electrician ensuring the installation complies with the current Wiring Regulations & Local Building Control. These products are designed for connection to a 240V 50Hz supply. Any broken or damaged parts should be replaced as soon as possible. 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 ~ 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 Advise

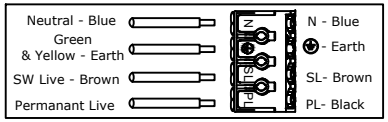
Always switch off the mains supply before installing / servicing, this Emergency Pack is suitable for internal use only (unless fitted within an IP rated fitting or enclosure). As the buyer / installer and / or user of this product it is your own responsibility to ensure the Emergency Pack is fit for purpose for which you have intended and operates to the relevant standards. KSR Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use. Do not use Megger or similar high voltage instruments due to the fact this MW Sensor & EM Pack contains electronic components that maybe damaged by high voltage testing, they must be disconnected from the circuit prior to testing. To prevent damage to the MW Sensor & EM Pack, do not mix with conventional magnetic ballasts on the same electrical circuit. At the end of life the EM Pack is classed as WEEE and should be disposed of in accordance with local legislation.

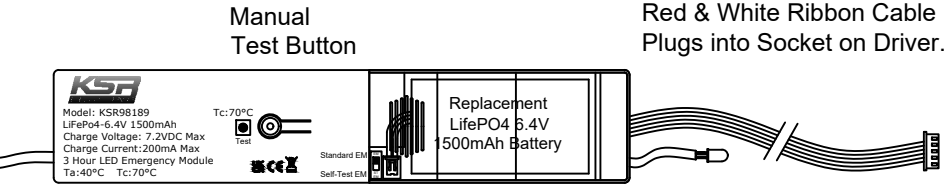
Installation Procedure

Familiarize yourself with the installation procedure and ensure the power is safely isolated before installing the Emergency Pack. Clip the EM Pack into the designated slot in the gear tray or top part (fitting dependant) of the fitting intended for use, wire / connect as per Fig.1. Connect the Male connector plug into the free Female Connector, connected in the Terminal block (N & PL) (dress the cables inside the fitting using the sticky pads and cable ties provided), then plug the Red & White ribbon cable into the designated socket on the end of the driver as shown. Also ensure the LED indicator is located in its position within the fitting.

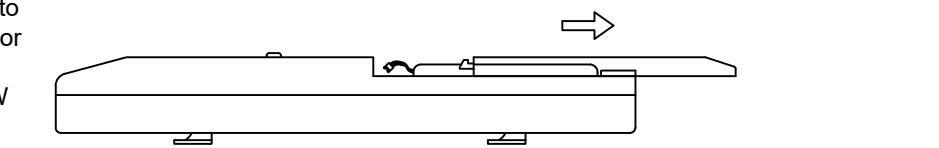
Re-fit the gear tray / housing and ensure all connections are made as per the below wiring diagram. re-fit the cover prior to turning on the mains supply to test.

Please note: For manual testing purposes a provision is made in the form of a remote push button switch (Fig 1). See separate sheet for details on manual testing.
Turn on the power and ensure the module is showing charge indicator and the fault indicator is extinguished. This fitting requires a 24 Hour initial charge period, please see overleaf for testing manual 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 rated duration of at least 4 years but should be replaced if the duration of the operation is less than 3 hours after a 24hr charge time with no interrupted supply.

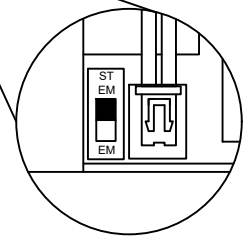


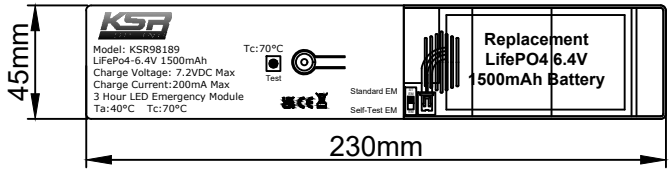


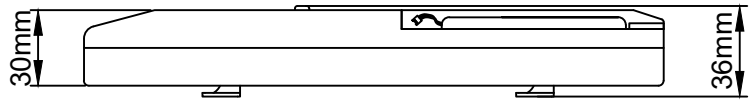
Plug Male Connector to Free Female Connector in Terminal Block (unless using with MW Sensor).



Slide off Battery cover to reveal battery plug (to be connected by the installer) & Self-Test or Standard Emergency Selector switch.







LifePO4 6.4V 1500mAh Battery

Emergency Pack Details

Supply: 230-240VAC 50/60Hz 55mA
Battery: 6.4V 1500mAh LiFePo4
Output: 36-54VDC - 3W Maximum
Charge Current: 300mA

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

KSR Lighting Aftersales: 023 92 674343
E-mail: aftersales@ksrlighting.com

Installation Sheet **KSR98189**  **Navara X & X-IP Select Emergency Pack** **Plug & Play - Standard or Self-Test**

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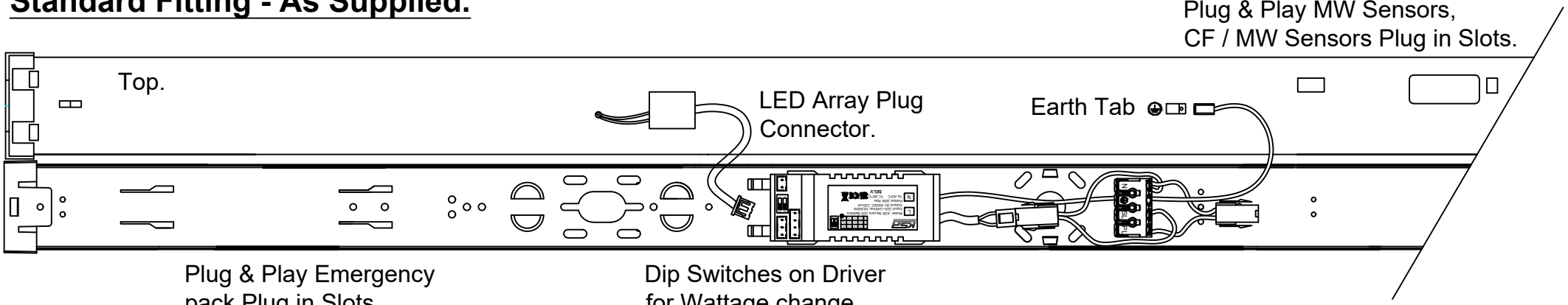
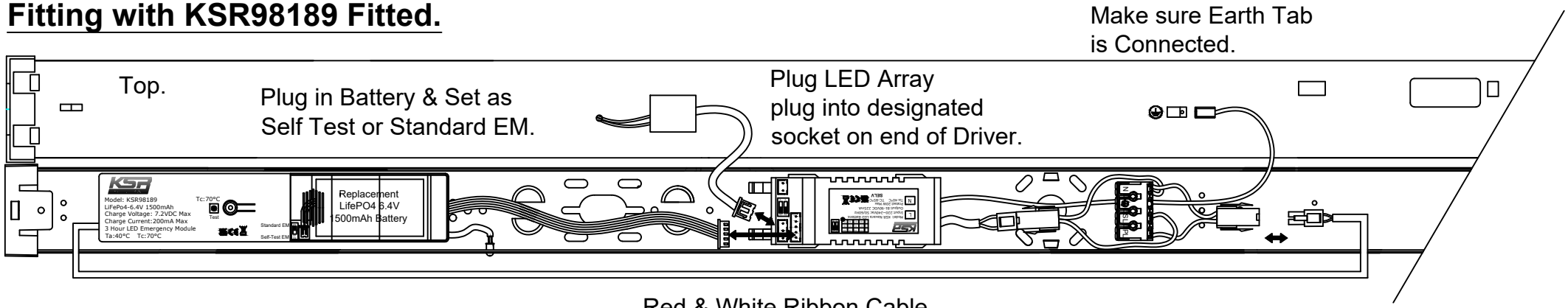
Standard Fitting - As Supplied.



Fitting with KSR98189 Fitted.



Make sure cables are dressed within the fitting and no cables are trapped when closing fitting.

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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.

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

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										