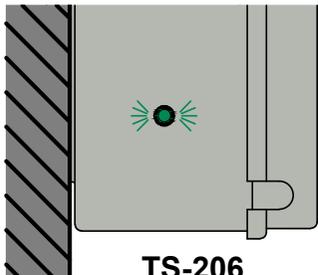
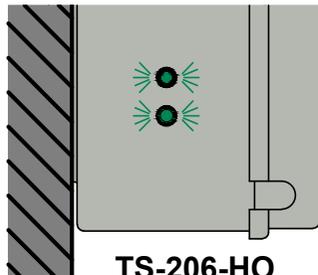


8

Applying Mains Supply

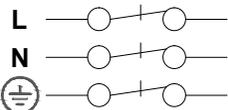


TS-206
Half Output



TS-206-HO
Full Output

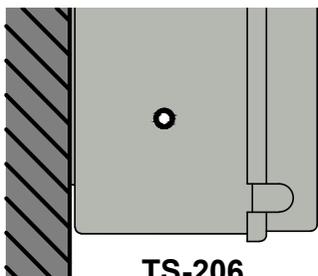
Non Maintained



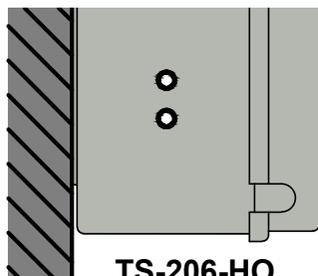
8. The LED Twin Spot is supplied in Non-Maintained only. Apply mains supply to test the luminaire. The indicator LED will show flashing green to indicate battery charging. For full output versions there are two indicator LEDs, both should begin flashing when mains is connected.

9

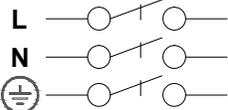
Test Emergency Supply



TS-206
Half Output



TS-206-HO
Full Output



9. To test, briefly fail the supply to illuminate the spot lamps from the internal battery. The indicator LED will be extinguished to show that the mains has been disconnected.

10

Reconnect Mains Supply

As fig 8.

10. Reconnect the unswitched mains supply to restart battery charging, indicated by the flashing green indicator LED. The indicator LED should remain flashing until battery is fully charged, the indicator LED will remain constant green.

Operating Instructions - LED Twin Spots

General Description

LED Twin Spots are fully automatic self testing emergency lighting luminaires

1. Luminaires should only be installed by suitably qualified personnel
2. Installation should be carried out in accordance with the requirements of BS7671 and BS5266 Pts 1, 7, 8 and 10.
3. Before installing, connecting or servicing these luminaires, isolate the mains supply to which they are to be connected.

Technical Specification

Supply Voltage	230V +10% -10%, 50/60Hz
Input Power	
Mode of Operation	Non Maintained
Weight	TS-206 - 1.9kg TS-206-HO - 1.3kg
Duration	3 hours
Recharge period	24 hours for full duration (14 hours for 1 hour)
Light sources	High Efficiency white LEDs
Battery	2.4V 1100mAh High Temperature NiMH
Ambient temperature	+5°C to +25°C
Degree of Protection	IP54
Conformity	BSEN 60.598-2-22

Testing regime

Luminaires incorporate fully automatic self testing and will regularly test for correct lamp (LEDs) functioning and for battery functioning in accordance with a predefined test programme that exceeds the requirements of BSEN50172 / BS5266 Pt.8: 2004.

See separate test regime description.

Remote control and monitoring (SRM units only)

All SRM version luminaires incorporate remote control and monitoring capability. Luminaires may be connected via collector boxes and interface boxes either to a local computer or to a LAN or internet connection and remotely controlled and monitored. All SRM luminaires are assigned individual addresses before leaving the factory and should be installed in accordance with the installation plans. Details of the remote control and monitoring operation may be found in separate sheet.

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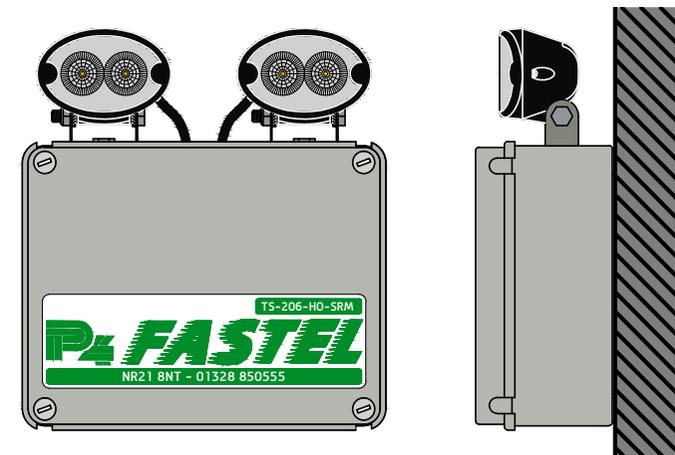


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Details correct at time of publication P4 reserve the right to change specification at any time.



Leading the way in self testing emergency lighting

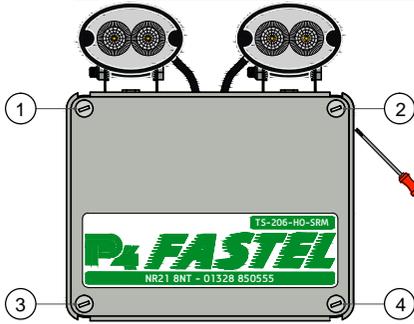


Installation and Operating Instructions for LED Twin Spot, Half & Full Output TS-206 & TS-206-HO



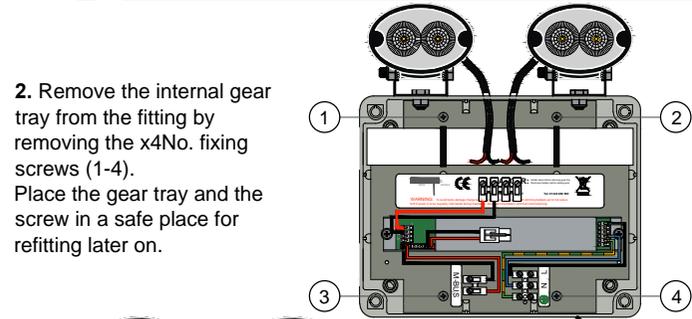
TSH-010 Issue 1. 14/04/2014
Drawn by T.Skevington - Approved by J. Daniels

1 Removal of Box Lid

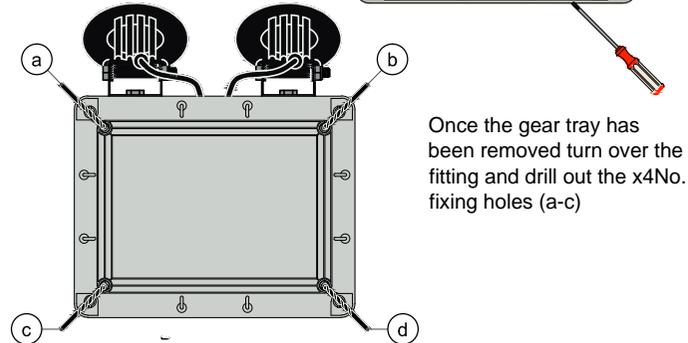


1. Remove the LED Twin Spot from its protective packaging and then remove the lid from the unit by un-screwing the 4No. retaining screws. Place the lid back in the packaging to prevent damage during installation.

2 Drill Out Fixing Holes

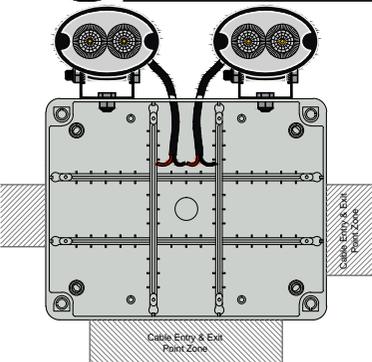


2. Remove the internal gear tray from the fitting by removing the 4No. fixing screws (1-4). Place the gear tray and the screw in a safe place for refitting later on.



Once the gear tray has been removed turn over the fitting and drill out the 4No. fixing holes (a-c)

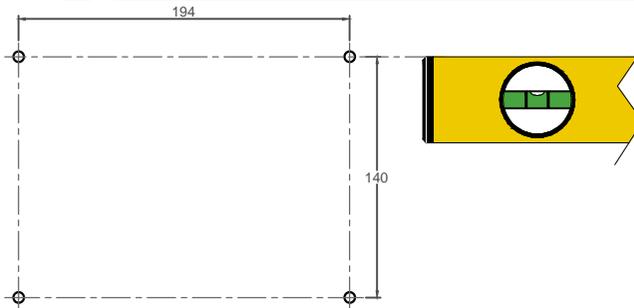
3 Drilling Out Cable Entry & Exit Points



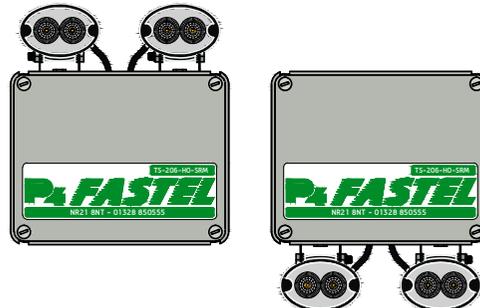
3. The diagram on the left highlights possible cable entry points with hatched areas.

An M20 cable gland is provided and a suitable size hole is required to be drilled.

4 Marking and Drill Fixing Holes

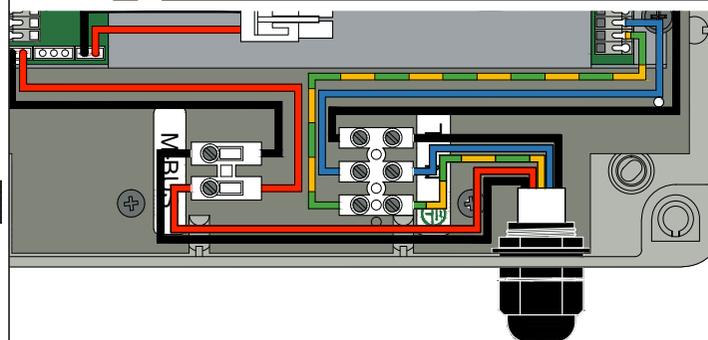


4. Mark out the fixing holes on the wall and use a spirit level to ensure it is level. Drill the holes out to a size to suit the required screws and wall fixings.



The LED Twin Spot can be mounted with either the spot lamps at the bottom or the top depending on the emergency lighting design requirements.

5 Wiring Detail - Mains & Communications

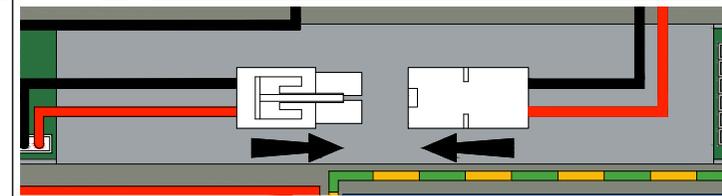


Wire Key	
	= Live
	= Neutral
	= Earth
	= Coms 1
	= Coms 2

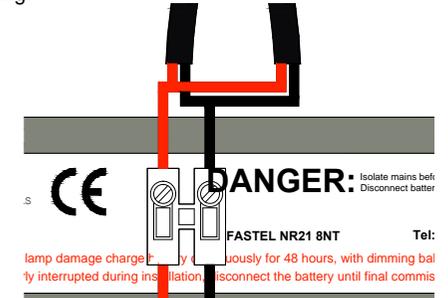
5. Wire the mains connector block as per the guides on the stickers.

IMPORTANT! Mains supply to unit to remain turned off until commissioning of the system.

6 Wiring Detail - Twin Spots & Battery Connection

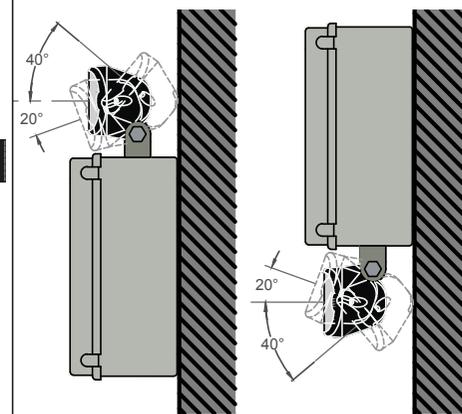


6. First plug the battery connectors together ensuring that polarity is correct. Stow the cables in a safe place inside the fitting to avoid damage during lid refitting.



Next wire the spot lamps into the connector block for the emergency inverter. Ensure polarity is correct otherwise LEDs will not illuminate.

7 Spot Lamp Adjustment



7. The lamps can easily be adjusted by hand and should be aimed to provide an even light distribution on the floor in accordance with BS5266. Once adjusted the lamps must be locked in position.

BS5266 requires that escape routes should have a minimum of 1lux along the centre line of the escape route.

In open areas a minimum level of 0.5lux is required throughout the area.

Extra care should be taken in high risk areas where extra emergency lighting may be required. 10% of normal mains lighting must be achieved over the risk area. i.e. 200lux mains lighting needs 20lux emergency lighting.