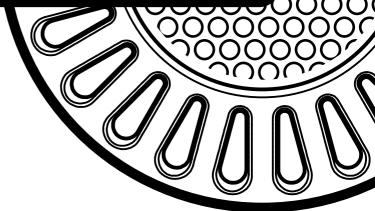


CONCRETE INSTALLATION



ULTRA COMPACT NICHE LIGHT

INSTALLATION & OWNER'S MANUAL

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Rainbow Pool Products

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READ THIS FIRST

This booklet contains important information about the correct installation and handling of EM-series lights. Please read this booklet carefully before commencing installation to familiarise yourself with the included parts, accessories and correct installation procedures.

BEFORE YOU START:

- EM-series cables can be shortened to suit individual installation requirements. Spa Electrics recommends all cabling is protected by conduit and that a conduit draw-box (or similar) is incorporated into pool cabling design to avoid siphoning. 20m cable is supplied as standard; 30m & 50m cable lengths are available to order from Spa Electrics or your distributor.
- Ensure that the lighting system is installed by a suitably qualified person (e.g. registered pool builder and/or qualified electrician), in accordance with the most current edition and/or amendment of AS/NZS 3000:2007 standards.
- For safe and proper installation, ensure that only those parts supplied with the system are used.
- Maximum installation depth for EM-Series lights is 400mm below coping (to centre of light)
- All lights should be mounted in a location that is easily accessible without the need for entering
 or lowering the pool water.
- At least 700mm cable must remain stored within the Niche to ensure the light can be accessed above the waterline. (Maximum cable within niche = 2 metres).
- EM-series lights can be mounted at any angle provided the installation conforms to the above items.

CLEANING

• Only use warm water and a soft brush or cloth to clean EM-series lights. DO NOT use detergents or spirits as this can damage the light and void your warranty.

USE

- Do not operate light unless completely submerged in water.
- Operating the light for at least 15 minutes every week is advised (all year round).
- EM-series lights are suited for both domestic and commercial installations and can be operated continuously (24/7) if required.

WARNING

The EM series light must only be powered by the supplied 12V AC SPA ELECTRICS transformer.

- DO NOT use electronic or switch-mode transformers with EM-series lights. These transformers will damage the light and void your product warranty.
- Pool chemicals & PH levels: Due to the corrosive nature of unbalanced pool chemicals, Spa Electrics strongly recommend that your pool water is balanced prior to installing your pool lights or any plastic or stainless steel components, and tested weekly to maintain these levels. pH levels should be maintained between 7.2 – 7.6 at all times to ensure the longevity of these components.
 - \rightarrow Failure to do so can result in chemical damage to the light housing and pool fittings, including stainless steel components.
 - \rightarrow Please note: Lights or components found to have excessive chemical damage will not be covered under our manufacturer's warranty policy
- This light contains no user-serviceable parts; opening the light will void the product warranty.

TOOLS REQUIRED

- → No. 2 Phillips screwdriver
- \rightarrow 13mm open-ended spanner
- \rightarrow Flat-blade screw driver (for EM-light removal)



IMPORTANT NOTE

The use of power tools (such as 240V and cordless drills) during installation is <u>not</u> recommended as these devices can cause faults and damage to light components.

All installation steps should be carried out with manual tools only.

PRODUCT SUPPORT & INFORMATION

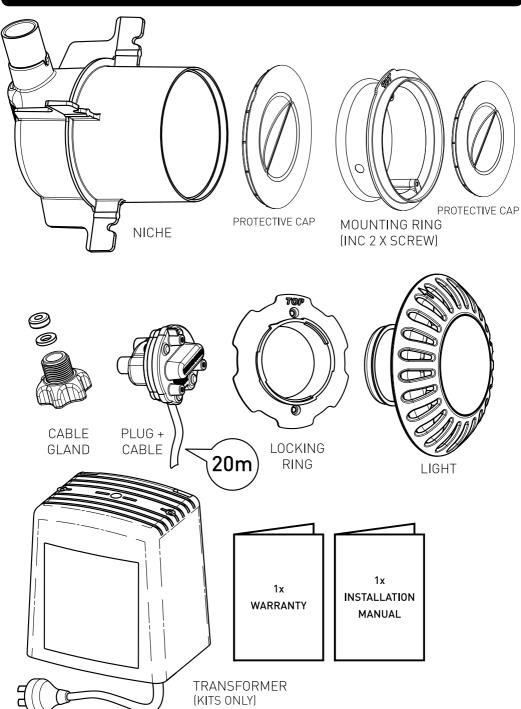
Phone: +61 3 9793 2299 (business hours)

Email: sales@spaelectrics.com.au (SALES enquiries)

Email: tech@spaelectrics.com.au (TECHNICAL support enquiries)

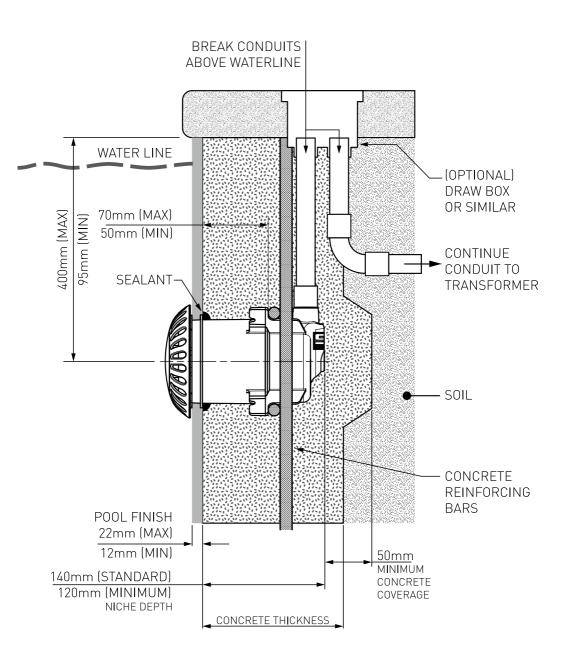
Web: www.spaelectrics.com.au

INCLUDED PARTS



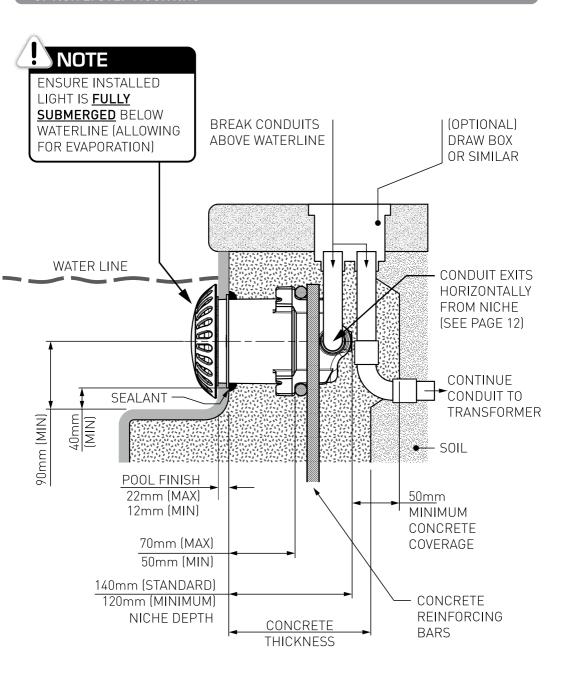
FINISHED INSTALLATION

OPTION 1: STANDARD WALL MOUNTING



FINISHED INSTALLATION

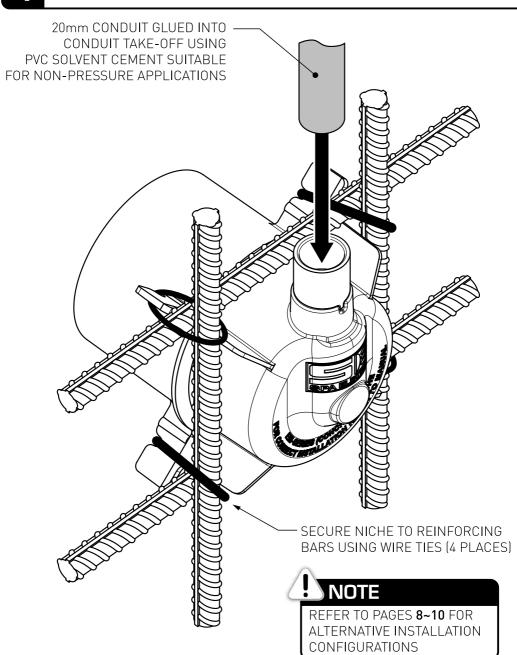
OPTION 2: STEP MOUNTING

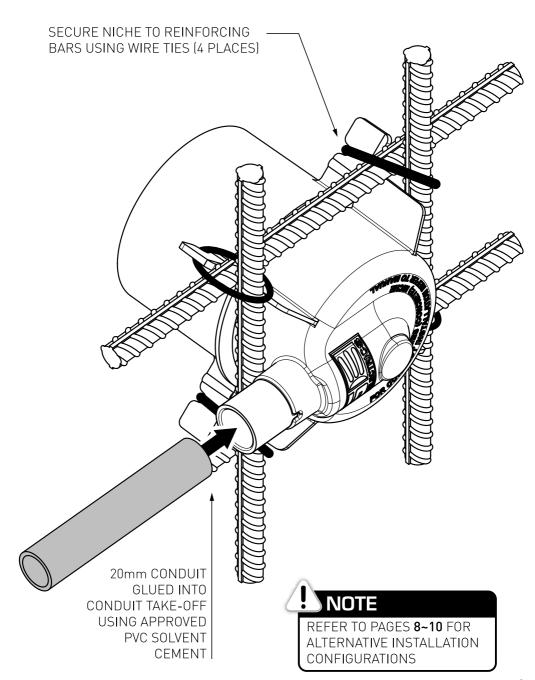


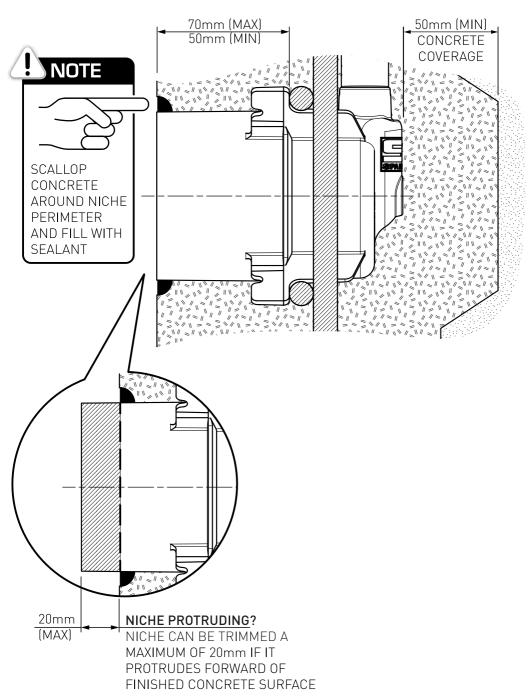
INSTALLATION

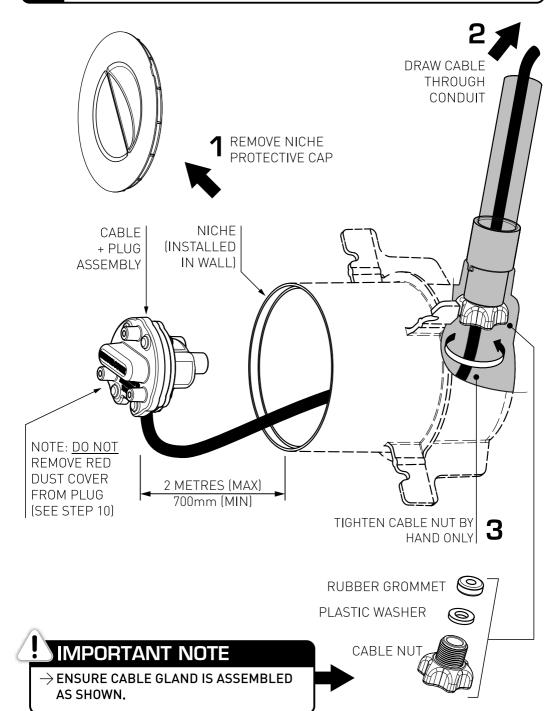
1

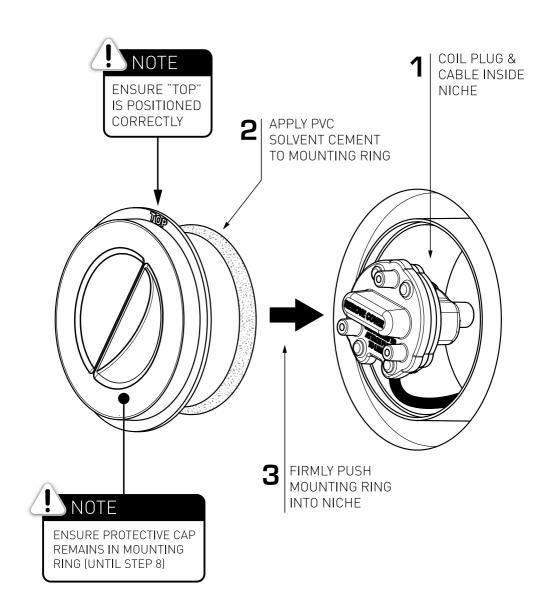
VERTICAL CONDUIT INSTALLATION



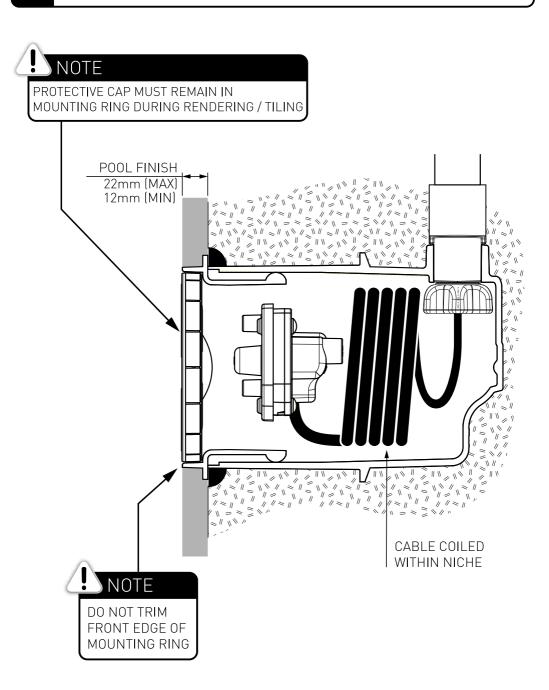


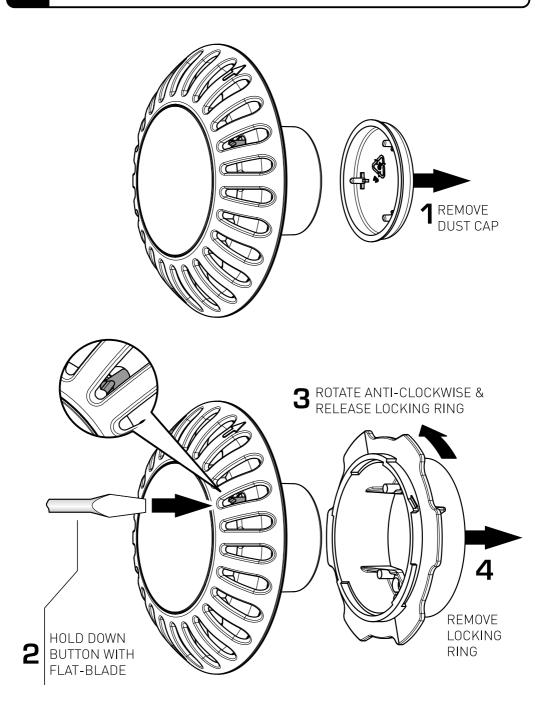




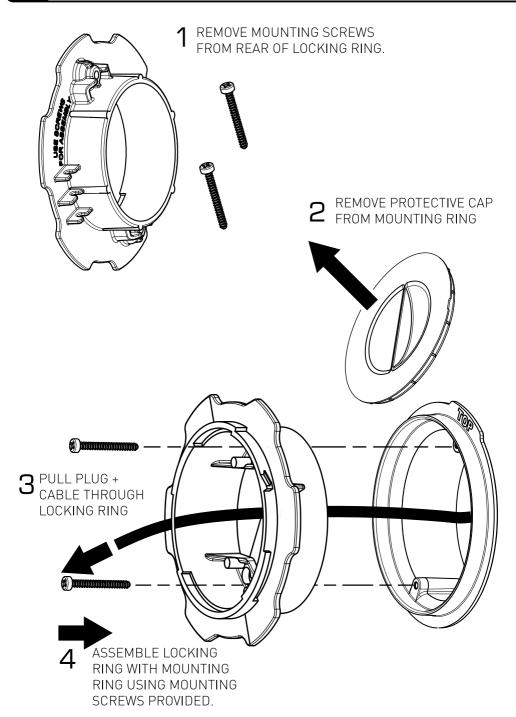


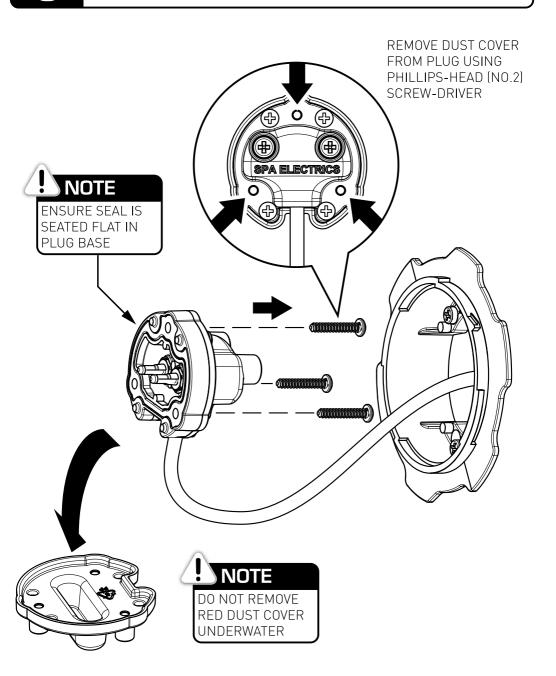
APPLY POOL FINISH

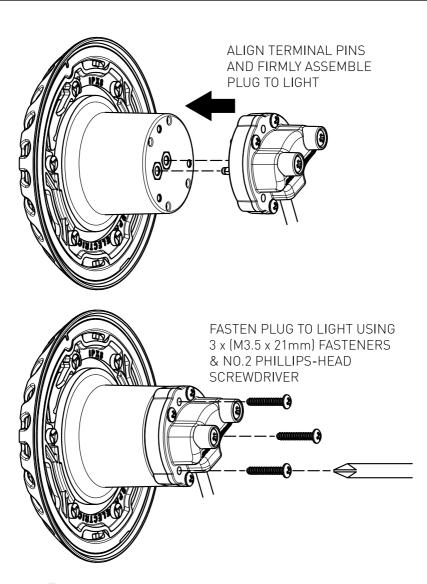




ASSEMBLE LOCKING RING TO MOUNTING RING







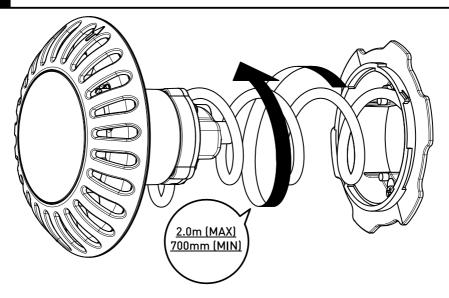


IMPORTANT NOTES

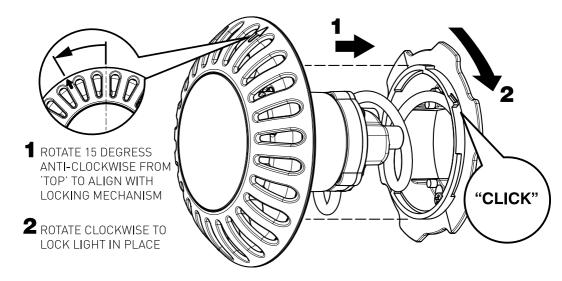
- → DO NOT OVERTIGHTEN SCREWS
- → DO NOT USE POWER-TOOLS
- ightarrow DO NOT ADD SEALANTS OR GREASES
- → ENSURE ALL SURFACES ARE CLEAN AND DRY
- ightarrow DO NOT ASSEMBLE UNDERWATER

EM-LIGHT ASSEMBLY

COIL CABLE INSIDE NICHE



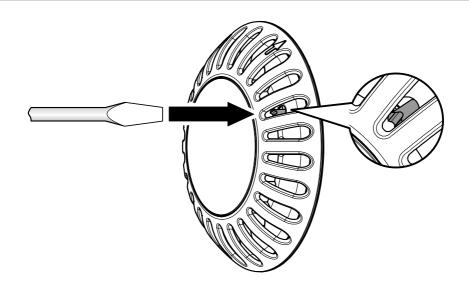
INSERT LIGHT INTO LOCKING RING



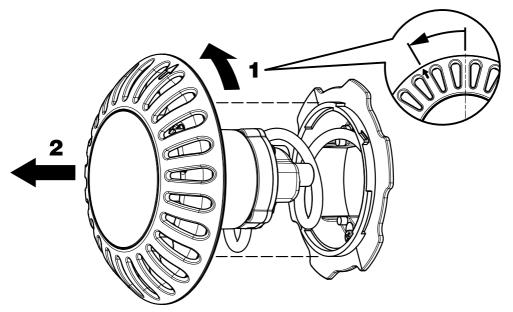
EM-LIGHT REMOVAL

1

PUSH DOWN BUTTON WITH FLAT BLADE & HOLD

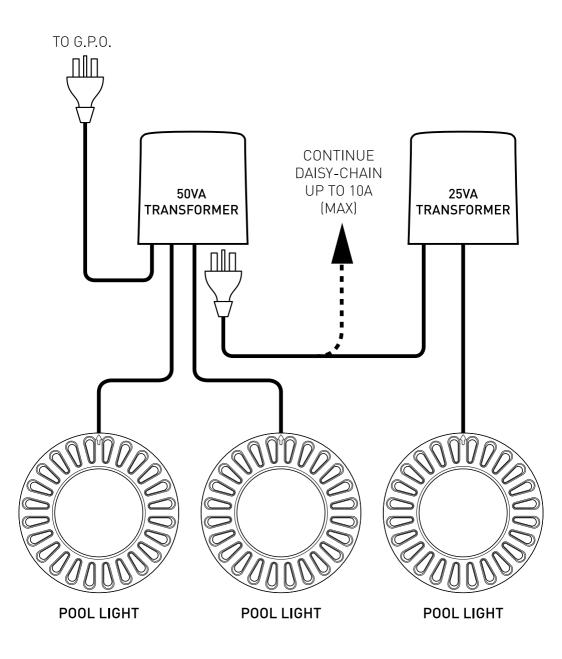


2 ROTATE ANTI-CLOCKWISE & RELEASE FROM LOCKING RING



CONNECTIONS

HOW TO CONNECT MULTIPLE EM-LIGHTS



MULTI-COLOUR OPERATION

MULTI-Colour light models provide a choice of 8 exciting fixed colours & 2 Multi-Colour programs with the flick of a switch!

COLOURS AVAILABLE:

2. Midnight Magenta

- 1. Electric **Blue**
- 4. Spring **Lime**
- 5. Lagoon **Green**
- 3. Ruby Red
- 6. Tropical **Aqua**
- 7. Daylight White
- 8. Warm White
- 9. Slow colour Blend
- 10. Fast Colour Change

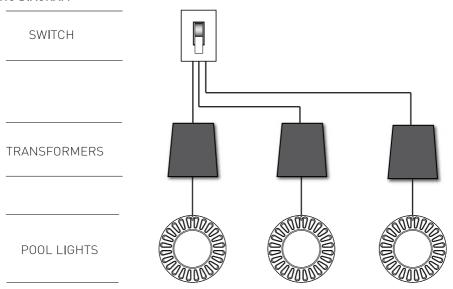
OPERATING INSTRUCTIONS

- 1. To change the color of the light, simply turn your light **OFF** for **2** seconds and then turn it back **ON**. This will signal the light to step through to the next colour. Colours will display in the order above, to select a desired colour, simply step through the colours until you find your desired selection.
- 2. Your lights will automatically save your selected colour once the power has been turned OFF for more than 1 minute so the next time the lights are used, they will illuminate on the last colour selected.
- 3. To reset or 'synchronize' your lights; with the power turned ON, turn the power OFF/ON once rapidly. This will put the lights into RESET mode (flashing BLUE), once this occurs turn the power **OFF**, wait **2** seconds & turn the power **ON**. Your lights should now be synchronized.

SYNCHRONIZED INSTALLATION

When installing multiple lights; to ensure synchronization and ease of operation all Lights must operate from a single switch.

WIRING DIAGRAM



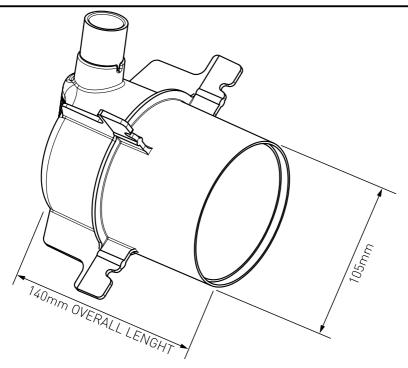
TROUBLESHOOTING

ISSUE	REASON	ACTION
Light flashing Blue continuously	System is in "Reset" mode	Refer to multi-colour operating instructions
Light flashes 2 times	Light over heating	Check light is fully submerged. Check vents are not obstructed
Light not operating (1)	Faulty connection to transformer	Ensure cable correctly connected to transformer terminals as per instructions
Light not operating (2)	Mains power not connected	Check transformer is plugged in to GPO and switched on
Light not operating (3)	Damaged cable	Disconnect plug top and test voltage under load using multimeter (ie. 20w 12v)
Light not operating (4)	Transformer not working	Check fuses & test transformer using multimeter under load (ie. 20W 12V)
Light not operating (5)	Damage caused by high voltage and/or incorrect power supply.	Return product to Spa Electrics for repair
Light colours not synchronised	Power interruptions or lights have been used individually	Reset lights - refer to multi- colour operating instructions

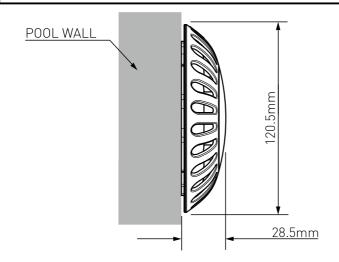
If these issues cannot be resolved with the above recommended actions, please contact your distributor or Spa Electrics.

KEY DIMENSIONS

A NICHE



B INSTALLED LIGHT





PLEASE STORE THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE





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