

**MODEL** LS411LED

**INSTALLATION TYPE** Surface Mount Base  
 Pole Clamp (LS6023)  
 Signage System (LS6025)  
 Concrete Anchor / Spike

**IP RATING** IP67

**SUPPLY VOLTAGE** 100-240 V AC, 50/60 Hz  
 24 V DC Ripple Free Supply  
 12 V AC Magnetic Transformer

**INSTRUCTIONS COVER** Single Colour  
 Single Colour Dimming  
 RGB (Integral & Remote Driver)



## LS411LED Omnio Mini

**Warranty void if not installed as per installation instructions**

 N653

DANGER

ISOLATE LUMINAIRE FROM POWER

Failure to isolate power supply before installation or maintenance may result in fire, serious injury, electric shock, death and may damage the luminaire.



WARNING

Luminaire can become very hot. Use discretion in placement.

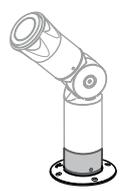
Ensure that installation complies with local authority standards.

All connections must be kept dry; failure to do so may result in product reliability issues.

Screw seals and sleeve must be fitted or warranty void.

**Select Mounting Option**

See individual mounting accessory instructions overleaf



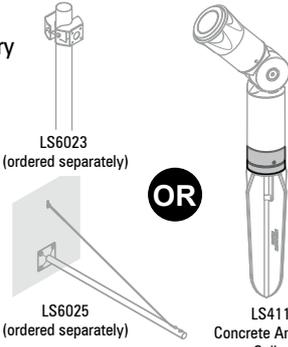
LS411  
Surface Mount  
Base

OR



LS411  
Adaptor Base

OR



LS6025  
(ordered separately)  
Concrete Anchor /  
Spike

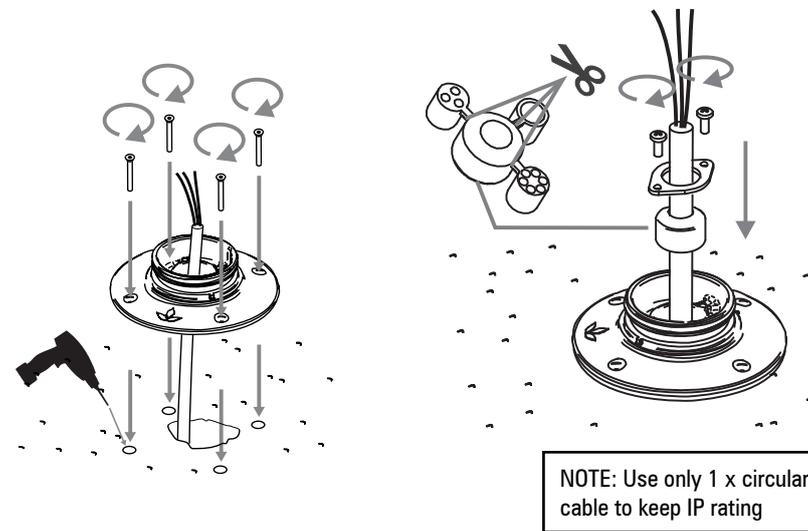
### IMPORTANT For All Mounting Options

Select a suitable power supply and locate centrally in relation to desired luminaire locations. Use discretion in placement as luminaire can become very hot and may burn. Run conduit and drill / cast holes as specified. Run cables. Maximum distance for remote drivers is 30 m from the luminaire. Use table on right to select a suitable supply cable with the appropriate number of conductors for the luminaire you are installing.

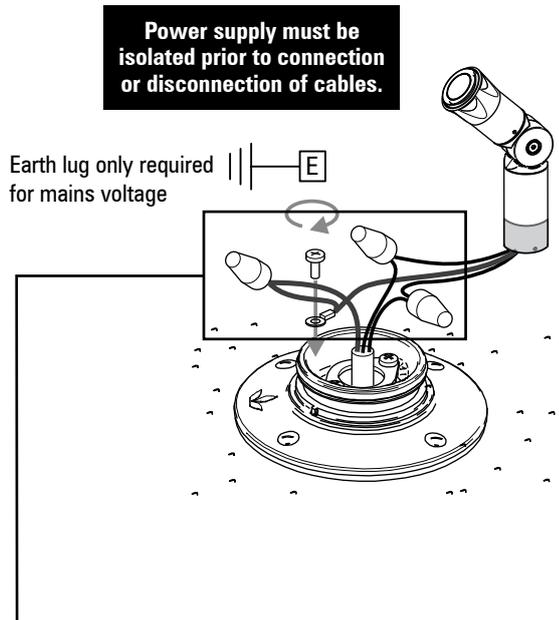
Luminaire Type	No. of supply cores needed
Single colour, low-voltage, non-dimmable	2
Single colour, low-voltage, dimmable	4
Single colour, mains-voltage, non-dimmable	3
Integral RGB driver	6
Remote RGB driver	6

### Surface Mount Base

- Select the grommet to suit wiring conductors. For correct cable selection refer to table on top right. Screw mounting base to mounting accessory or screw directly to mounting surface using 4 screws provided (holes for mounting screws may be supplied blind. Drill through as required with a 4.5 mm drill. A screw must be used for each hole drilled to achieve IP67 rating.)



- Terminate luminaire. Single colour, non-dimmable, mains-voltage version depicted in example. Refer to wiring diagrams below for details. Earth lug connection only required for mains voltage version of luminaire.

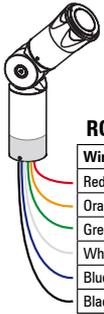


see over for wiring diagrams

# Surface Mount Base Continued...

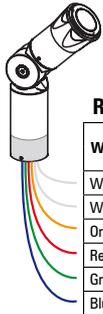
## Wiring Diagrams

### Low Voltage



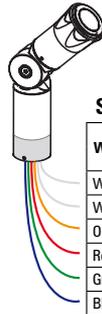
#### RGB Remote Driver

Wire Colour	Designation
Red	Red +
Orange	Red -
Green	Green +
White	Green -
Blue	Blue +
Black	Blue -



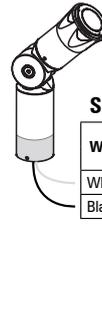
#### RGB Integral Driver

Wire Colour	Designation	
	AC	DC
White 1	AC1	+
White 2	AC2	-
Orange	PWM Common	
Red	PWM Red	
Green	PWM Green	
Blue	PWM Blue	



#### Single Colour Dimming

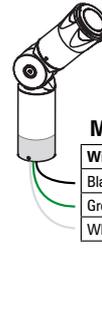
Wire Colour	Designation	
	AC	DC
White 1	AC1	+
White 2	AC2	-
Orange	PWM +	
Red	-	
Green	PWM -	
Blue	-	



#### Single Colour

Wire Colour	Designation	
	AC	DC
White	AC1	+
Black	AC2	-

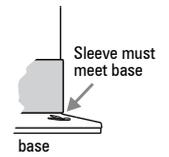
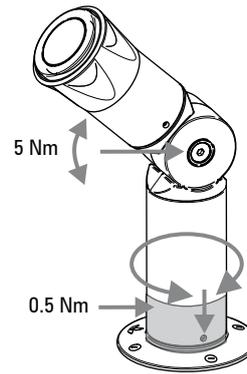
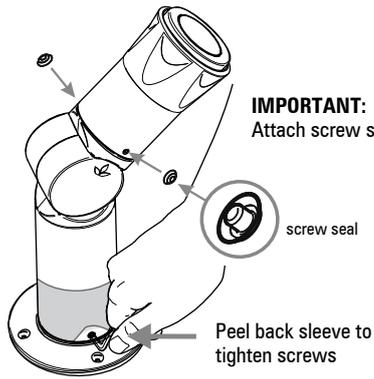
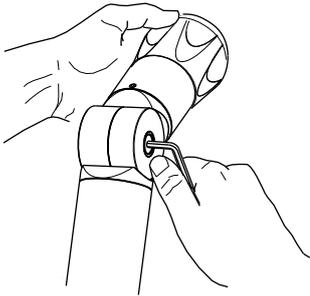
### Mains Voltage



#### Mains Voltage

Wire Colour	Designation
Black	Active
Green	Earth
White	Neutral

- To aim luminaire loosen socket head screw on the side of the knuckle, position luminaire and retighten using the 5 mm Allen key supplied.

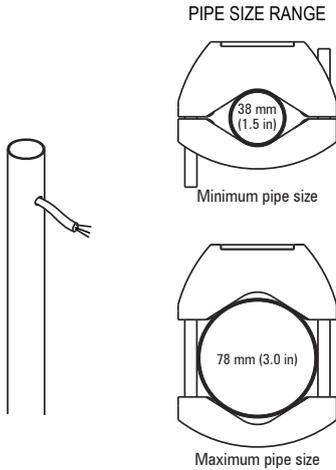


# Adaptor Base for Pole

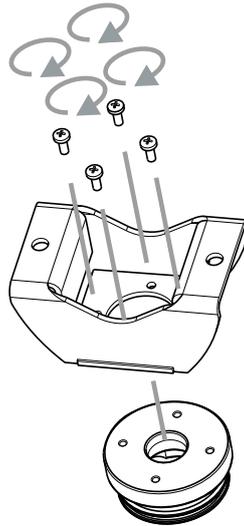
## 1. LS6023 - pole clamp accessory

Mark luminaire location on post and drill clearance hole to suit cable used.

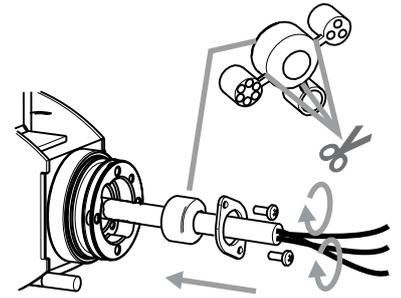
NOTE: Cable exit location is aligned central to luminaire base.



## 2. Use M4 x 10 mm screws to fit base to bracket.

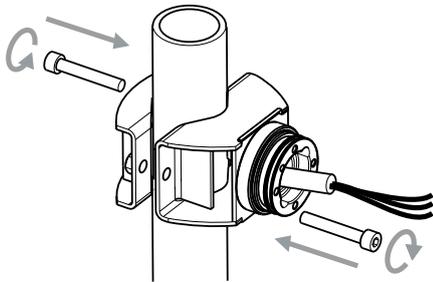


## 3. Fit grommet assembly (Required for IP rating).

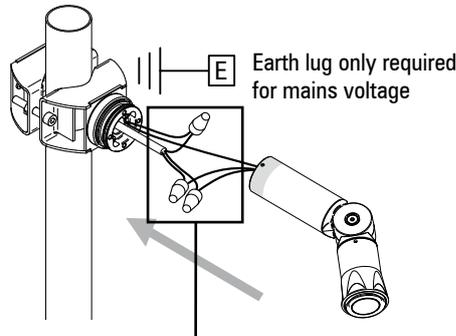


NOTE: Use only 1 x circular cable to keep IP rating

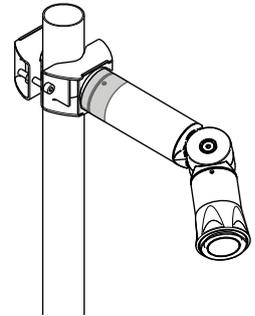
## 4. Secure bracket to pole (6 mm Allen key required).



## 5. Terminate luminaire. Mains-voltage version depicted in example. Refer to wiring diagrams below for details.

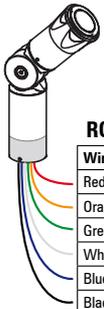


## 6. Aim luminaire. Refer to Surface Mount Base section for lampping instructions.



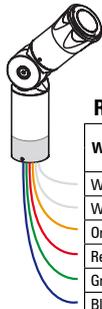
## Wiring Diagrams

### Low Voltage



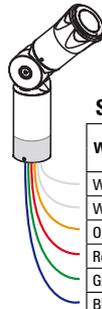
#### RGB Remote Driver

Wire Colour	Designation
Red	Red +
Orange	Red -
Green	Green +
White	Green -
Blue	Blue +
Black	Blue -



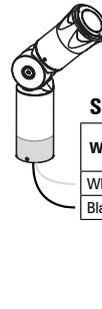
#### RGB Integral Driver

Wire Colour	Designation	
	AC	DC
White 1	AC1	+
White 2	AC2	-
Orange	PWM Common	
Red	PWM Red	
Green	PWM Green	
Blue	PWM Blue	



#### Single Colour Dimming

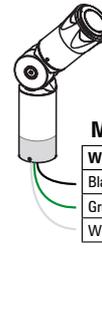
Wire Colour	Designation	
	AC	DC
White 1	AC1	+
White 2	AC2	-
Orange	PWM +	
Red	-	
Green	PWM -	
Blue	-	



#### Single Colour

Wire Colour	Designation	
	AC	DC
White	AC1	+
Black	AC2	-

### Mains Voltage



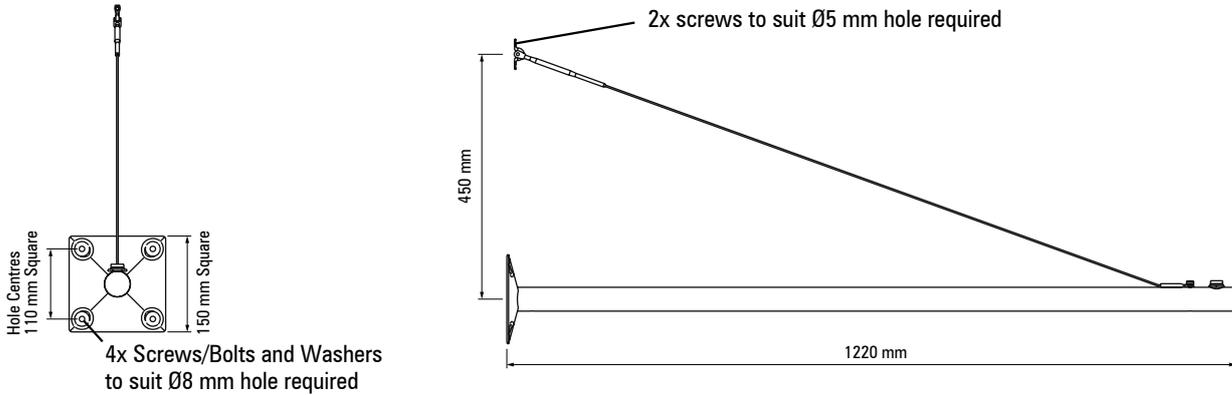
#### Mains Voltage

Wire Colour	Designation
Black	Active
Green	Earth
White	Neutral

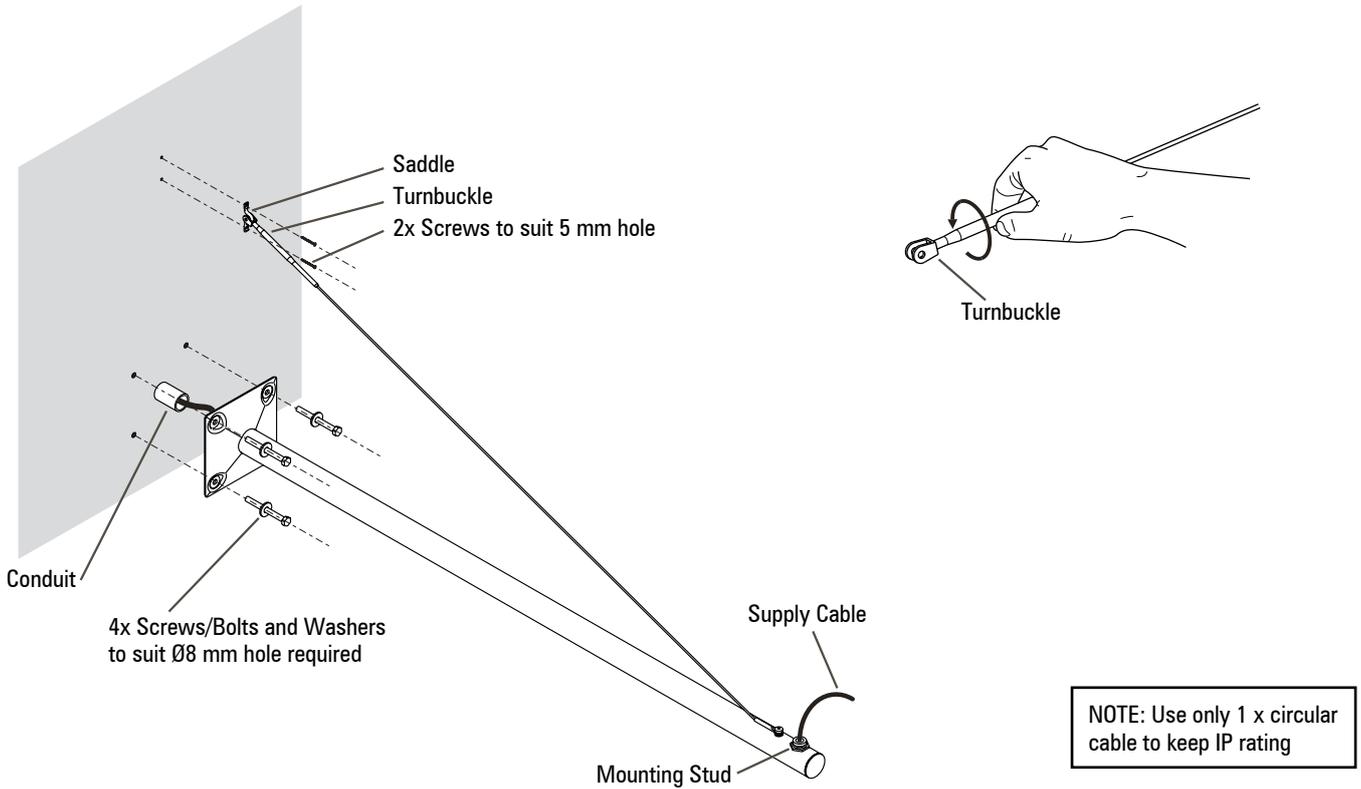
# Adaptor Base for Signage

## 1. LS6025 - signage system accessory

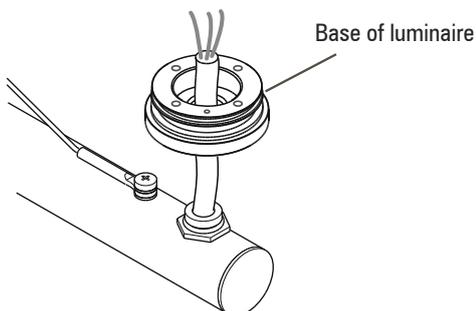
1. Drill/cast holes and run cables as per lighting plan. Cable will need to exit the mounting surface into the hollow of the signage pole.
2. Use discretion in placement as luminaire can become very hot and may burn.
3. Select/purchase appropriate stainless steel fasteners for mounting substrate. (Not supplied.)



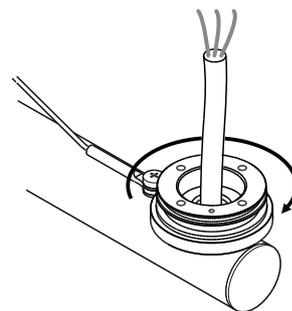
2. 1. Feed supply cable through pole until exiting mounting stud at the end.  
2. Bolt signage pole to wall.  
3. Open turnbuckle to approximately half of it's adjustment range. Extend the rope assembly up the wall and fasten saddle in place.  
4. Fit rope assembly to saddle and lightly adjust tension if required.



3. Remove base from luminaire and feed through supply cable.

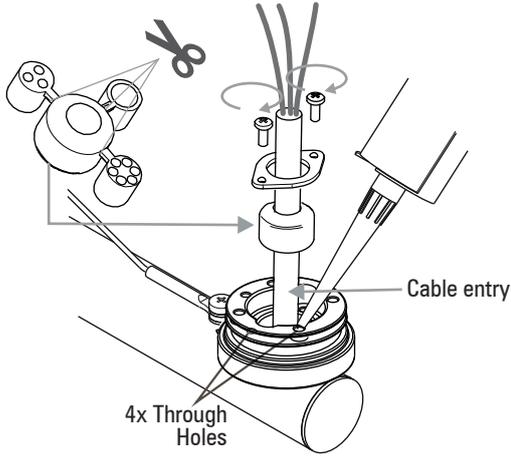


4. Screw luminaire base onto mounting stud. Terminate supply cable.



# Adaptor Base for Signage Continued...

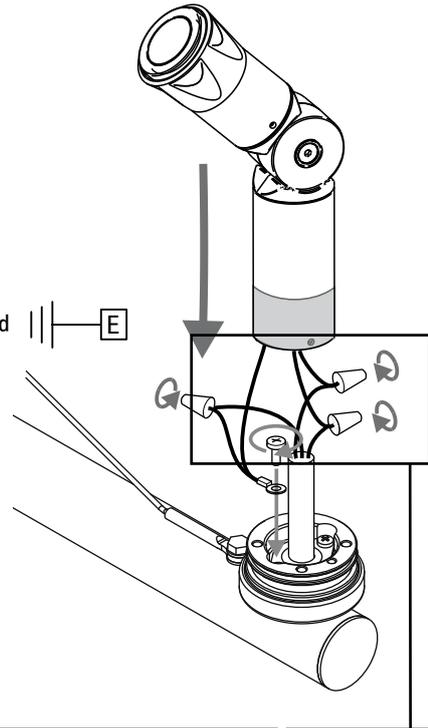
5. **IMPORTANT:** Seal cable entry point and 4 small holes in base with silicone.



**NOTE:** Use only 1 x circular cable to keep IP rating

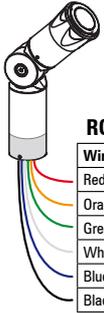
6. Finalise installation and aim as desired. Refer to Surface Mount Base section for lamping instructions.

Earth lug only required for mains voltage



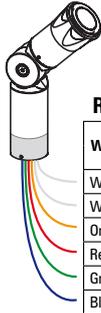
## Wiring Diagrams

### Low Voltage



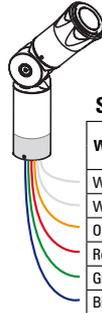
#### RGB Remote Driver

Wire Colour	Designation
Red	Red +
Orange	Red -
Green	Green +
White	Green -
Blue	Blue +
Black	Blue -



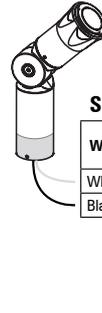
#### RGB Integral Driver

Wire Colour	Designation	
	AC	DC
White 1	AC1	+
White 2	AC2	-
Orange	PWM Common	
Red	PWM Red	
Green	PWM Green	
Blue	PWM Blue	



#### Single Colour Dimming

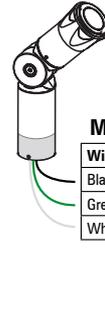
Wire Colour	Designation	
	AC	DC
White 1	AC1	+
White 2	AC2	-
Orange	PWM +	
Red	JOIN	
Green		
Blue	PWM -	



#### Single Colour

Wire Colour	Designation	
	AC	DC
White	AC1	+
Black	AC2	-

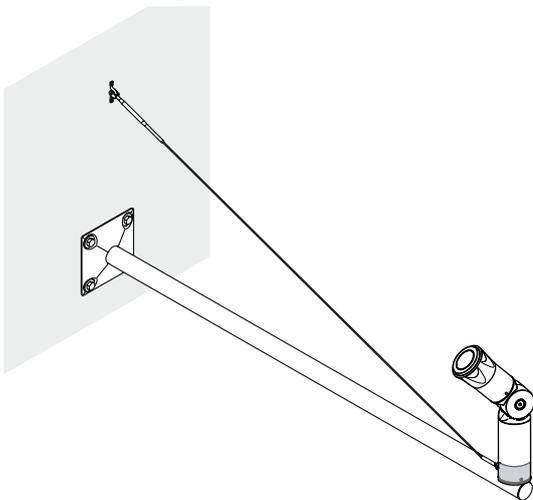
### Mains Voltage



#### Mains Voltage

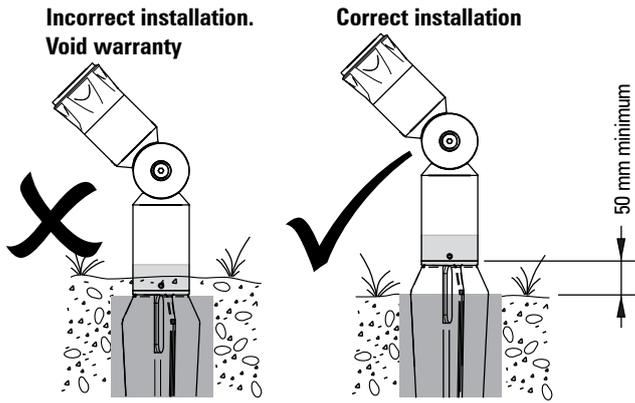
Wire Colour	Designation
Black	Active
Green	Earth
White	Neutral

7. Finalise installation and aim as desired. Refer to Surface Mount Base section for lamping instructions.

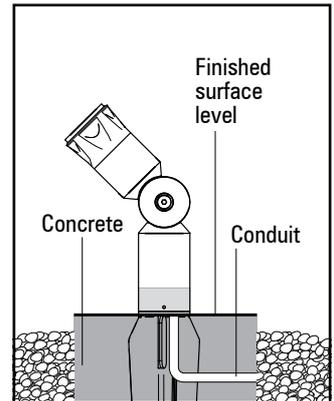
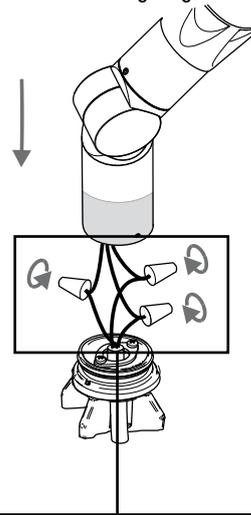


# Concrete Anchor / Spike

1. Firmly push spike into ground ensuring base of luminaire is at least 50 mm above soil level.

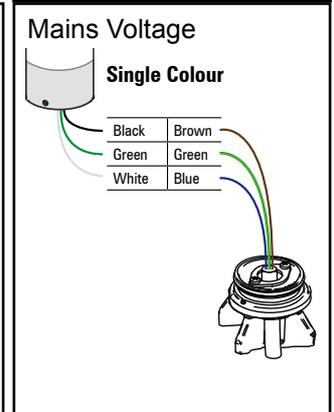
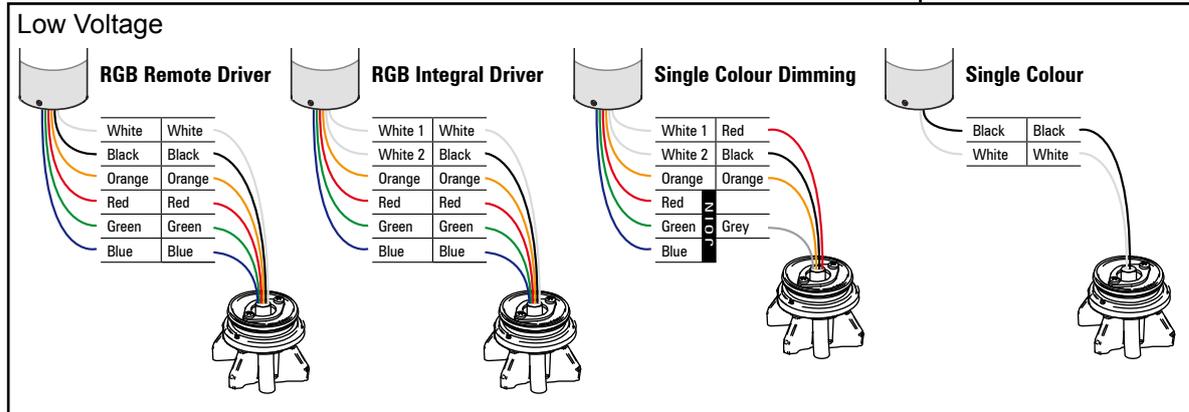


2. Connect top of luminaire to supply cables from mounting spike. Refer to wiring diagram below for details.

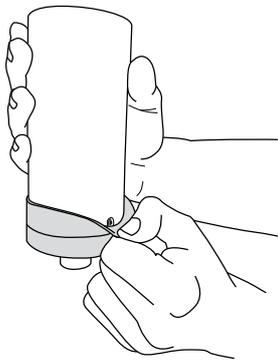


**CONCRETE ANCHOR ONLY**

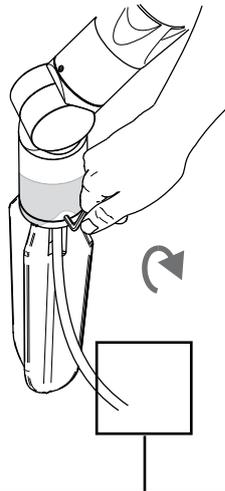
## Wiring Diagrams



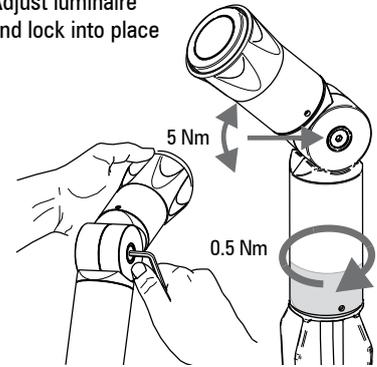
3. **IMPORTANT** Attach protective sleeve. Peel back when tighten screws.



4. Tighten screw to secure luminaire to base. Connect luminaire cable in accordance with local wiring rules. See diagram below for details.

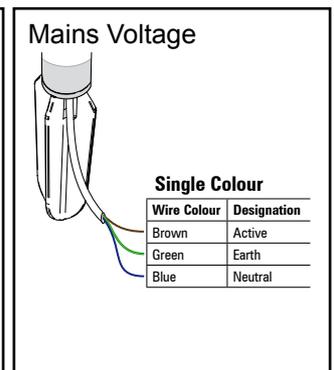
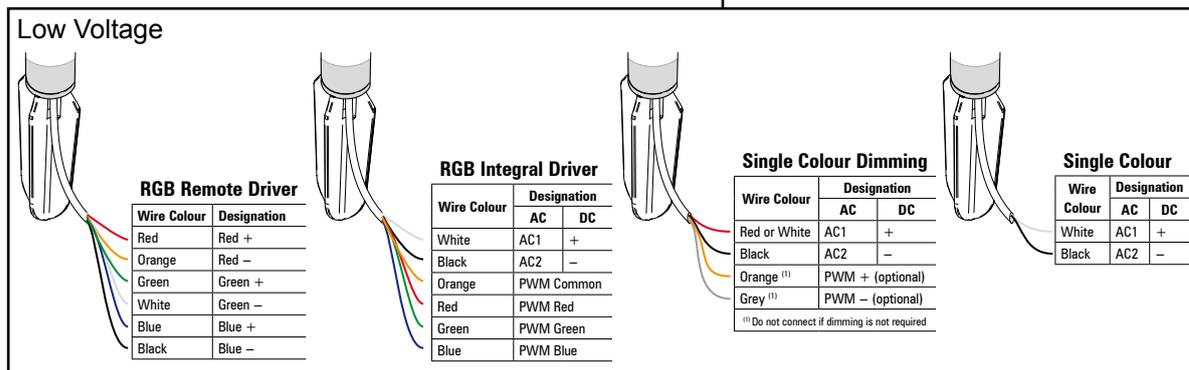


5. Adjust luminaire and lock into place



**NOTE:** For mains voltage use as concrete anchor only. Contractor is to ensure installation complies with local wiring rules.

## Wiring Diagrams



**Questions?**  
**Call +61 7 3286 2299**  
**Email [sales@lumascope.com.au](mailto:sales@lumascope.com.au)**  
**[www.lumascope.com.au](http://www.lumascope.com.au)**

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## **SAFETY INSTRUCTIONS**

**WARNING - To reduce the risk of FIRE or INJURY:**

1. Luminaires and transformers to be installed by licensed electrical contractors.
2. Luminaires to be used for intended purpose only.
3. Do not operate the luminaires with a missing or damaged parts.
4. Use only genuine Lumascope parts to replace damaged or missing components.
5. Refer to instructions for installation and operating requirements.
6. Ensure installation complies with local regulations

**Voltage insulation test (megger) will permanently damage product and will void warranty.**

**SAVE THESE INSTRUCTIONS.**