

## LS9402LED: Vedita Spike Mount

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

**Note: Fixture uses intelligent driver. Always leave on for 20 seconds unless programming.**

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.



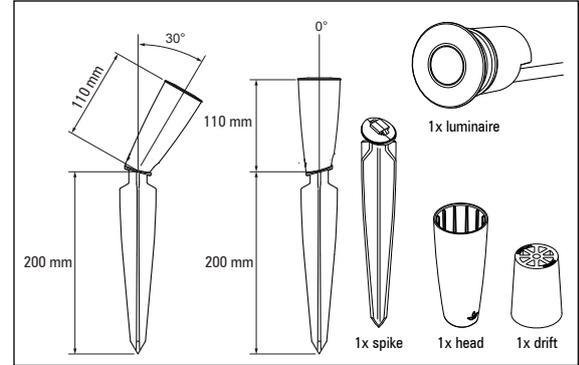
**WARNING**

**It is strongly recommended to use Lumacape power supply or transformer**

**Use of electronic transformer will permanently damage luminaire**

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

**Opening luminaire will void warranty**



**1.** Use a Lumacape supplied 24 V DC ripple free power supply or Lumacape magnetic transformer, locate centrally in relation to the luminaires. **NOTE:** Generally 24 V DC ripple free power supplies should be installed in a well ventilated fully under cover environment. **NOTE:** DC Power supplies are more efficient than AC transformers. Under no circumstances can an 'electronic' transformer be used, this may damage the product.

**2.** Mark actual locations of luminaires to be installed. Using the charts overleaf calculate the cable size on each run including all luminaires to be connected to a run of cable. Use the same chart to select power supply..

**3.** Lay cable from power supply/transformer for each cable run. **NOTE:** If dimming is required then four conductors will be required. For non-dimmed (usual installation) only two conductors are required. Dimming circuit can use 1 mm cable.

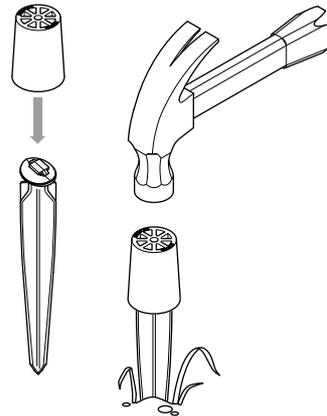
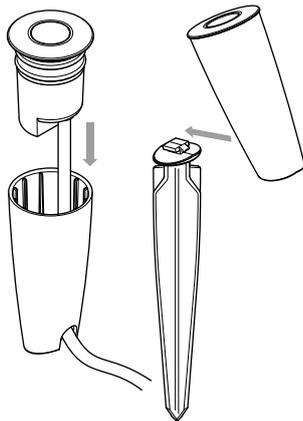
When installing each luminaire, leave enough cable at each luminaire location to allow for future re-positioning as your garden matures (1 m is usually plenty).

**4.** Feed cable of LS9402LED through head and insert LS9402LED fully. Slide head onto spike. **NOTE:** the head can be slid onto the spike in two directions to provide a vertical or 30° orientations.

**5.** If difficult to push fully into ground by hand, push in enough to maintain desired orientation. Remove head from spike. Place drift over spike and strike drift with hammer until spike is home. Reattach head and check aiming.

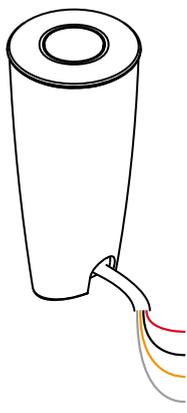
**6.** Connect the luminaire to the supply cable using the wire nuts supplied. Any joint must be dry and water tight or warranty will be void. **NOTE:** The orange and grey wires are for optional PWM digital dimming using 0-10 V. Lumacape accessory LS6125 is required.

 If dimming is not required, do not connect the orange and grey wires. In all cases they are to be sealed and kept dry. Failure to do so will result in the T5 smart driver dimming the luminaire due to a voltage differential between the two conductors.



**7.** Switch on and check each luminaire is operating. At night, adjust and aim you luminaires to achieve the desired effect.

# Wiring Diagram



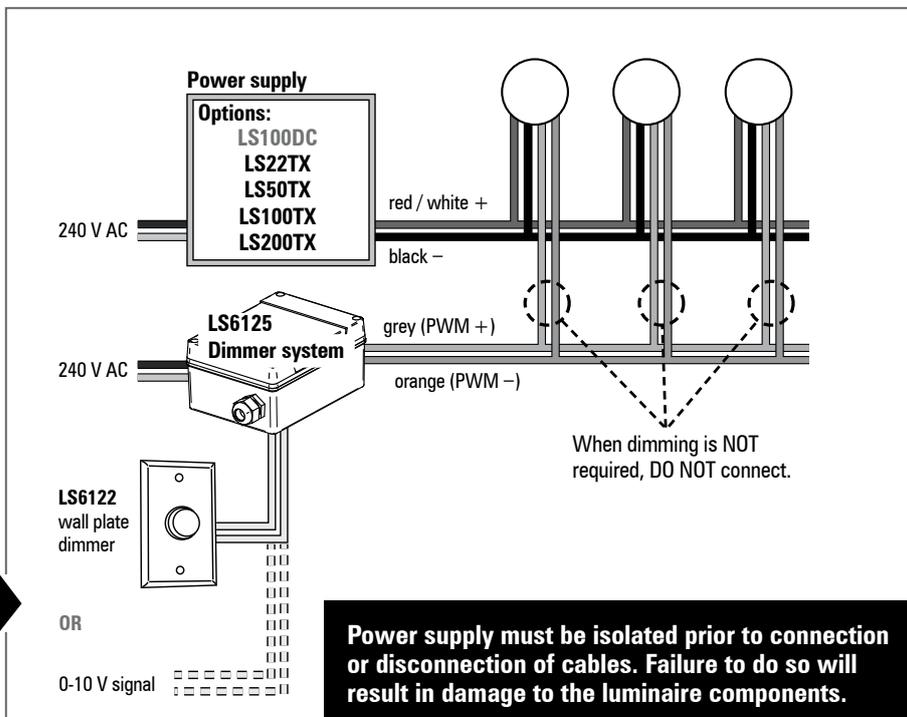
## Single Colour Dimming

Wire Colour	Designation	
	AC	DC
Red or White	AC1	+
Black	AC2	-
Orange <sup>(1)</sup>	PWM +	(optional)
Grey <sup>(1)</sup>	PWM -	(optional)

<sup>(1)</sup> Do not connect if dimming is not required

**NOTE:** If dimming is required use LS6125 PWM to 0-10 V dimming.

**IMPORTANT:** Please note that the PWM dimming signal polarity is reversed with Lumascope's LS6125 and any third party PWM controllers. See diagram on right for details.



## LS940LED Series

### Power Supply/ Transformer & Maximum Cable Runs

Wattage (Part Number)	24 V DC Power Supply			12 V AC Magnetic Transformer								
	100 W (LS100DC)			100 VA (LS100TX)			50 VA (LS50TX)			22 VA (LS22TX)		
Lumascope Cable	LS604	LS604-6	LS604-10	LS604	LS604-6	LS604-10	LS604	LS604-6	LS604-10	LS604	LS604-6	LS604-10
Cable size	3.3 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	3.3 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	3.3 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	3.3 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>
No. of luminaires 100 metre run	26	•	•	6	10	10	4	4	4	2	3	3
No. of luminaires 75 metre run	26	•	•	8	10	12	5	5	8	3	3	4
No. of luminaires 50 metre run	26	•	•	10	12	14	6	8	8	3	4	4
No. of luminaires 25 metre run	26	•	•	14	14	14	8	8	8	4	4	4

• means the maximum number of luminaires can be accommodated on smaller cables.

**NOTE:** 24 V DC power supplies are far more efficient than AC transformers.

Under no circumstances can an 'electronic' transformer be used; this may damage the product

**Questions?**  
**Call +61 7 3286 2299**  
**Email sales@lumascope.com.au**  
**www.lumascope.com.au**

## 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.**