info@hudsonlighting.co.uk

General spike light instructions

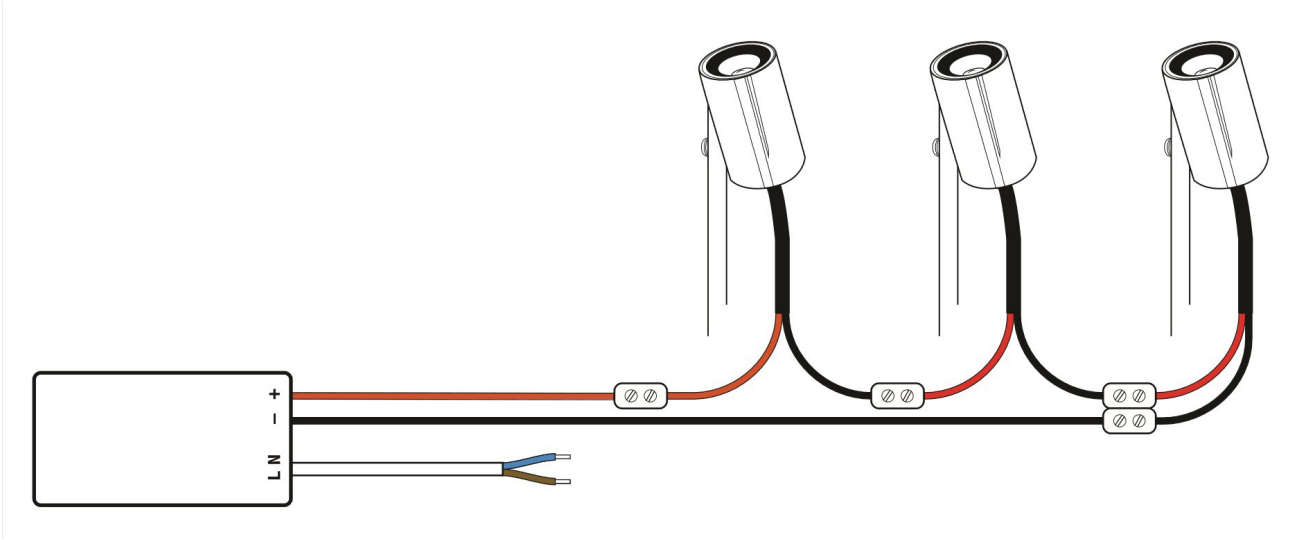
Please note – a 350mA driver or any one of our lighting controllers with in built drivers are required for the lights to work.

DO NOT CARRY OUT INSULATION RESISTANCE TEST on the extra low voltage (lighting side) wiring with the light fittings connected – this will damage the fittings and void the warranty.

Wiring

Consider the wattage of the light. The high power spikes lights are 12W and the standard spike lights are 3W. You should run cabling taking into consideration what wattage the LED driver is to work out how many lights you can have on each driver. E.g. an 18W LED driver will power 6 x 3W spike lights.

The lighting must be wired in series:



Fault finding:

Fault	Possible Cause
Lighting flashing on and off	Wrong driver type – must be 350mA, 700mA will cause flashing, as will a non fixed current driver

	Overloaded LED driver – check wattage of lights (total connected to that driver) vs wattage of driver
	Loose connection
	Wiring not in series – see diagram above
Lighting not working (initial connection)	Check that the connections are correct – try connecting 1 light at a time to the driver – best to try with a known working driver and light
	Polarity incorrect (wired the wrong way round)
	LED driver faulty
	Light fitting faulty – this shouldn't be the case as every light receives an underwater test before it leaves us but can't be ruled out
Lighting not working (existing/previously working)	Damaged cables – check visually if possible, continuity test the wiring
	Failed LED driver – check against known working LED driver
	Faulty light fitting
Fitting not dimming	Will only be dimmer/driver compatibility or dimmer/driver fault. The ability to dim these lights is not effected in any other way.
Flickers on dimming	LED driver compatibility with dimmer.