

Using a 3 way connection box (series for Luxeon, Parallel for Standard Led) installed in the ground before paving is laid. Cable pair from the box is passed through the paving cutout as it is laid. Later on this cable is cut back to a usable length, connected to the paver flying leads via suitable insulated crimp (Scotchlok ?) & heat shrink over sleeve. The paver is then lowered down into the cutout hole We stock 3M medium walled adhesive sleeve for wet locations. NOT SUITABLE FOR IMMERSION

CRE1208/1210/2210/2212, Could be installed into ABS plastic pipe of nominal 32mm/1.25" I.D. BS5255:1989, with silicone adhesive or similar

CRE1209/2211, As above but with ABS plastic pipe of 38mm/1.5" I.D.

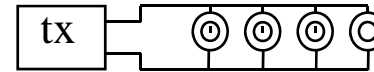
ADHESIVE MATERIAL - PLEASE NOTE - PERMANENT FIXING IS NOT RECOMMENDED AS ACCESS FOR MAINTENANCE SHOULD ALWAYS BE CONSIDERED

Install the fitting using a high quality clear long life silicone sealant / adhesive. Always ensure that the sealant makes a watertight bond between the fitting and the installation surface and check all glands and parts for tightness. It is also advisable to test the system prior to final installation to verify that all cables, connections and control systems are working correctly.

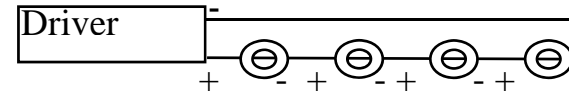
"Bostik Matrix" or "EvoStick" silicone frame sealant could be used or we can supply long life silicone, our catalogue number FS136

## CRESCENT 5mm Led's or LUXEON LED Pavers & Fittings

**STANDARD LED (5mm) wire in parallel with 24v A/c transformer**



**LUXEON LED wire in series with Special Drivers**



**Damage will occur if the above is not adhered to.**

**Attention must be paid to correct selection of driver & minimum / maximum led's per driver.**

**Do not** be tempted to test just one led when the driver says minimum 3. Please be aware that the Luxeon are generally 1 watt types, but 2 watts are now being made, & require special drivers.

**PAVERS**, these units are supplied with a 1.5m flying lead, via a black gland, which ensures that it remains sealed against dust and moisture. **DO NOT** loosen the gland nut or try to dismantle the unit. The body of these units is 27 or ( 38 )mm diameter. You should drill a hole in the mounting surface as close to this as possible - say 28 - 30mm or ( 40 ), so that it is a snug fit.

**Check** dimensions before drilling. You will need about 100mm depth to allow for the cable.

**Fixing**, use a good quality clear silicone adhesive such as one suitable for bathrooms. Weatherproof type if being installed outside. If the units are being installed facing downwards e.g. in a ceiling, then we recommend using a proprietary 2-part epoxy adhesive. There is a spring kit for some fittings & some of our range have 3 screw fixing holes in the bezel, (screws not supplied).

**INTERNAL** fittings are generally IP20 rating, they are supplied with a 1.5m flying lead, usually have a legged springs for fitting into ceiling / MDF etc.. Please **Check** dimensions before drilling.

Ensure the mains supply is switched off before connecting the led to the transformer/driver. The cable should be run in ducting or similar to protect it from accidental damage. If in doubt, please seek professional help.

**Power Supplies for Led's**

| Part No    | Led's to be powered |     | Watts<br>1 or 2 | Type  | Input<br>voltage | Output<br>wattage v/a | Dimensions<br>L.W.H.mm | IP rating | How<br>Dimmed | Typically used for                                     |
|------------|---------------------|-----|-----------------|-------|------------------|-----------------------|------------------------|-----------|---------------|--|
|            | Min                 | Max |                 |       |                  |                       |                        |           |               |  |
| CRE2777    | 1                   | 8   | 1               | CCD   | 230v             | 350mA - 8/10w-dc      | 115x40x20              | IP20      | Not poss      | 1w Luxeon stars & MR16 module ONLY                     |
| CRE2778    | 1                   | 3   | 1               | CCD   | 230v             | 350mA - 3w-dc         | 55dia x 20h            | IP64      | Not poss      | 1w Luxeon stars & MR16 module ONLY                     |
| CRE2779    |                     |     |                 | DCPs  | 95-240v          | 24v dc - 10w          | 120x35x20              | IP20      | Not poss      | Must be used for CRE2754/65/66/67                      |
| CRE2780    |                     |     |                 | DCPs  | 95 - 240v        | 24v dc - 40w          | 120x35x20              | IP20      | Not poss      | For standard 5mm led's                                 |
| CRE2783    | 1                   | 2   | 1               | CCD   | 230              |                       |                        |           | Not poss      |  |
| CRE2784    | 1                   | 4   | 2               | CCD   | 230v             | 700mA, 2w - 8w        | 115x40x20              | IP20      | Not poss      | Fow 2w Luxeon, one - four leds                         |
| CRE2785    |                     |     |                 | DCPs  | 95 - 240v        | 10v dc - 10va         | 120x35x20              | IP20      |               | CRE2764 Bricklight                                     |
| CRE2801    | 4                   | 12  | 1               | CCD   | 195 -265v        | 350mA - 36w           | 315x63x45              | IP20      | via dmx       | CL & Luxeon only. Min load 4w per channel (3). Max 12w |
| CRE2802/9w | 4                   | 9   | 1               | CCD   | 230              | 350mA - 4w-9w         | 110x55x25              | IP20      | Via remote    | Colourline (<900mm) & Luxeon only. Min load 4w         |
| CRE2802/12 | 6                   | 12  | 1               | CCD   | 230              | 350ma 6w-12w          | 140x40x30              |           | Not poss      |  |
| CRE2802/16 | 2x1                 | 2x8 | 1               | CCD   |                  |                       |                        |           |               | 2 Circuits of 8, 1 watt Luxeon                         |
| TSO20/24   | 1                   | 33  | 0.6             | ACWWt | 220/240          | 24v 50Hz ac - 20VA    | 90x64 dia              | IP20      | "             | For Crescent 4 led module                              |
| TSO50/24   | 1                   | 83  | 0.6             | ACWWt | 220/240          | 24v 50Hz ac - 50VA    | 90x64 dia              | IP20      | "             | For Crescent 4 led module                              |
| CRE2292    |                     |     |                 | ACWWt | 220/240          | 24v 50Hz ac - 15VA    | 120x120x55             | IP65      | "             |  |
| CRE2309    |                     |     |                 | ACWWt | 220/240          | 24v 50Hz ac - 80VA    | 188x188x68             | IP65      | "             |  |
| CRE2332    |                     |     |                 | ACWWt | 220/240          | 24v 50Hz ac - 120V,   | 188x188x68             | IP65      | "             |  |

CCD = CONSTANT CURRENT DRIVER....DCPs= DC POWER SUPPLY....ACWWt = AC WIRE WOUND TRANSFORMER

NOTES:

Luxeon Constant Current Drivers provide the optimum current for the led. The actual voltage across each led is about 3.4v,

CCDs must be used with Luxeon leds and cannot be used for standard 5mm leds

Generally volt drop is not a problem, Led's consume very little power. As a guide when extending up to 15mtrs use .75mm<sup>2</sup>, to 25 mtrs use 1.5mm<sup>2</sup>, over use 2.5mm<sup>2</sup>

Control systems & dimmers must be adapted to match the requirements of the transformer/CCD/power supply