

Oledo Spectrum Floor Light

(FL988, CD990, CD989 and CD769)

Hacel
L I G H T I N G

Preparation, installation and wiring

- Position the **Oledo Spectrum Power Supply Unit** and the **Oledo Spectrum Lighting Controller** in the desired locations. NB These components are not IP rated and must be located internally away from any sources of water or moisture.
- Connect the **24V cables** from the **Power Supply Unit** to the **Lighting Controller**. The six way terminal block is marked - **C + - C +**, but should be treated as two separate three way terminal blocks, i.e. - **C +** and - **C +**. The **white cable** is connected to either of the terminals marked **+ (positive)**, the **black cable** MUST be connected to the terminal marked **- (negative)** within the same three way terminal block. NB The terminal marked **C** is not used.
- Connect the three core luminaire feed cable (not supplied) to the **Lighting Controller**. This is wired to the remaining three way terminal block - **C +**. Make a note of which wire colours you have used for each of the terminals. NB The specification for this cable is as follows: minimum cross sectional area 0.5mm², maximum cross sectional area 1.5mm² and rated 24V/2.5A.
- The **Lighting Controller** can now be fixed to the mounting surface with countersunk screws (not supplied) and the brushed aluminium fascia applied by removing the backing tape from the four adhesive pads.
- Fix the **recessing can** to the mounting surface, the can may be screwed to wooden type floors using the three countersunk holes on the lip or by setting it into concrete at the time of pouring (an optional **anchor** is available for extra strength).
- Position the **translucent prism/stainless steel fascia** assembly close to its **recessing can**. The **translucent prism** is pre-fixed to the **LED circuit board** and is pre-wired to a connector block with three cables; **red, black and white**.
- Push the connector block onto the two studs in the **recessing can** so that the **red** cable/terminal is positioned in line with **L**, the **black** cable/terminal in line with **N** and the **white** cable/terminal in line with **Ctl**. The terminal marked as $\underline{\underline{C}}$ is not used on the **Oledo Spectrum** due to the voltage being 24V.
- Route the luminaire feed cable from the **Lighting Controller** to the first **Oledo Spectrum** through the supplied gland. Connect the **+ (positive)** cable to **L**, connect the **- (negative)** cable to **N** and connect the **C** cable to **Ctl**. Then loop additional cabling to subsequent luminaires, up to twenty four in total. See the **Wiring Diagram** section.
- When the wiring is complete apply a thin bead of **silicone sealant** around the outer lip of the **recessing can** and attach the **stainless steel fascia** to the **recessing can** with the **three screws** provided (to a torque of approximately 1.5Nm) ensuring the cables are not trapped in any way.
- Attach the **translucent prism** to the **stainless steel fascia** with the **two screws** provided (to a torque of approximately 1.5Nm) feeding the excess cable through the hole in the centre of the **stainless steel fascia**.
- Connect the **Power Supply Unit** to the mains supply.
- NB The last part of the installation is to attach the **stainless steel disk** to the **translucent prism** by peeling off the **backing tape** and sticking into place. However, as the disk cannot be removed once it is located this must NOT be carried out until the whole system has been tested and is proved to be working satisfactorily. See the **Operating Instructions** section.



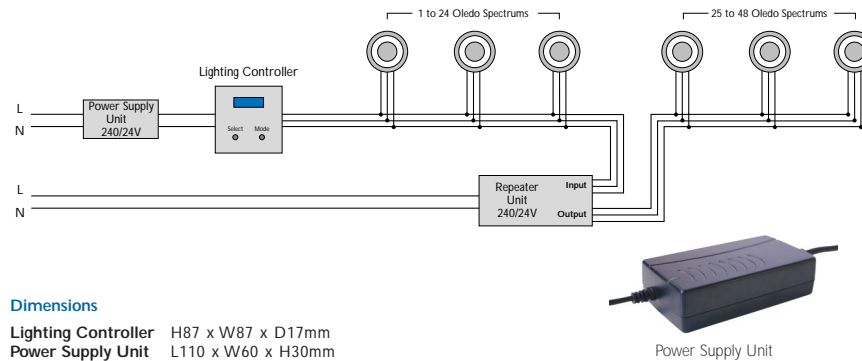
To be installed by qualified personnel only

Oledo Spectrum Repeater Unit

For systems requiring in excess of twenty four luminaires the **Oledo Spectrum Repeater Unit** is required. Each **Repeater Unit** used can power up to a further twenty four luminaires.

- Position the **Repeater Unit** in the desired location. NB This component is IP65 rated and may be positioned externally.
- A link (not supplied) from the last **Oledo Spectrum** in the previous chain must be made to the **Repeater Unit**. The same cable specification applies as for wiring the first chain. Connect this cable to the three way terminal block - **C +** marked **Input** using the same colour configuration used for wiring the first chain.
- Connect the three core luminaire feed cable (not supplied) to the **Repeater Unit**. This is wired to the remaining three way terminal block - **C +** marked **Output**.
- Route the luminaire feed cable from the **Repeater Unit** to the first **Oledo Spectrum** in the new chain. Connect the **+** (**positive**) cable to **L**, connect the **-** (**negative**) cable to **N** and connect the **C** cable to **Ctl**. Then loop additional cabling to subsequent luminaires. See the **Wiring Diagram** section.
- A mains supply must also be provided to the **Repeater Unit**, connect this to the connector block marked **L** and **N**. NB if the **Repeater Unit** is located externally this cable must also be suitable for external use.
- Further **Repeater Units** can be added by following the previous steps.

Wiring Diagram



Dimensions

Lighting Controller	H87 x W87 x D17mm
Power Supply Unit	L110 x W60 x H30mm
Repeater Unit	L200 x W80 x H50mm



Operating Instructions

<p>SELECT HOLD BUTTON DOWN TO SCROLL THROUGH</p>	<p>MODE HOLD BUTTON DOWN TO SCROLL THROUGH</p>	<p>DESCRIPTION</p>
<p>SEQUENCE FROZEN or SPEED 1-7</p> <p>1 = 4hrs 48mins / cycle 2 = 2hrs 24mins / cycle 3 = 1hr 12mins / cycle 4 = 36mins / cycle 5 = 18mins / cycle 6 = 9mins / cycle 7 = 1min 20sec / cycle</p>	<p>STANDBY</p>	<p>OFF</p>
	<p>VIVID SPECTRUM (Select button activated)</p>	<p>Cross fades through all the colours of the spectrum</p>
	<p>PALE SPECTRUM (Select button activated)</p>	<p>Same as the 'Vivid Spectrum' but this mode crossfades through the pastel shades</p>
	<p>MARBLED WHITE (Select button deactivated)</p>	<p>Solid white effect</p>
	<p>PRIMARY FADE (Select button deactivated)</p>	<p>Fades in and out of the 3 primary colours</p>
	<p>MIXED FADE (Select button deactivated)</p>	<p>Fades in and out of 3 colours made up from a combination for the 3 primary colours</p>

Operating Instructions

- The controller will always default to the **Vivid Spectrum** mode on the fastest cycle speed (see previous page for description of modes and cycle speeds).
- If this is the required mode set the cycle speed by holding down the **Select** button until the required speed is showing. The display will show the selected speed below the **Hacel** logo, this can be changed at any time by holding down the **Select** button.
- At any point press and release the **Select** button and the sequence will freeze on the displayed colour. The display will show **SPF** below the **Hacel** logo to show that the sequence is frozen. To restart the sequence hold down the select button again to find the desired speed.
- Other modes can be accessed by holding down the **Mode** button at any time, until the required mode is showing.
- Please note that the **Select** button is only active when the **Vivid Spectrum** and the **Pale Spectrum** modes are selected.
- To switch off the luminaire hold down the **Mode** button until standby is showing, after approximately 5 seconds the unit will power down, but **Hacel** will remain showing on the controller.
- To switch the unit back on simply hold the **Mode** button down until the required mode is found. The controller will automatically return to the sequence or colour that was selected before the unit was shut down.

Every effort is made by Hacel to guarantee the accuracy of information provided.
Specifications subject to change without notice.

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