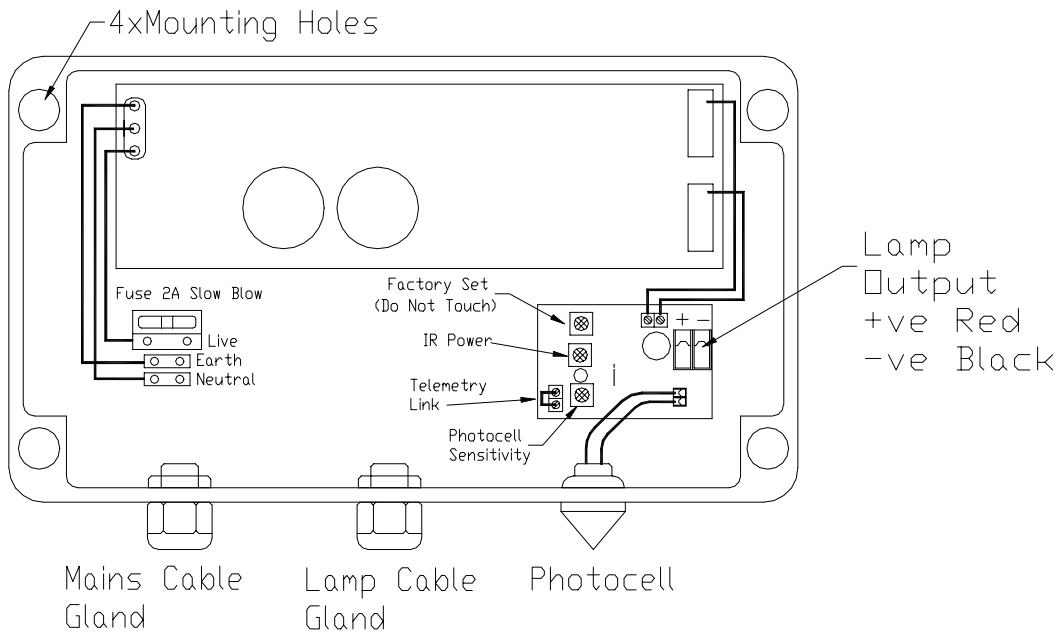


ZXLED

Power Supply Unit – ZXPS.100R



Contact Details

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INSTALLATION INSTRUCTIONS

ZXLED

Please read the following instructions carefully to ensure the best possible performance from your Extreme Lamp.

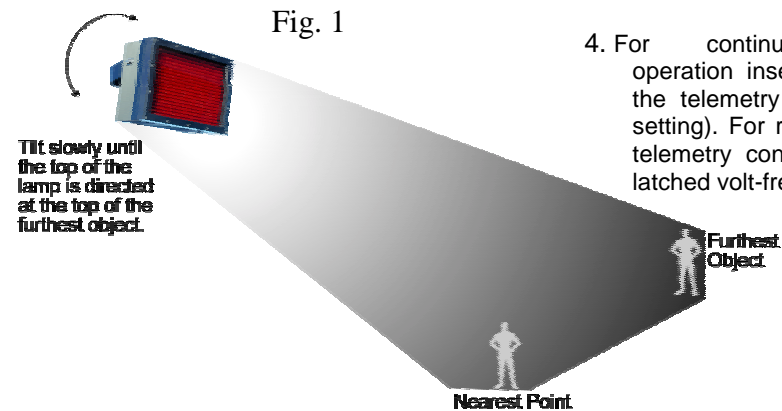
INSTALLATION

The lamp unit must only be connected to the Extreme power supply provided (ZXPS.100R).

To maintain the CSA Type 4, NEMA 4X ratings a CSA Certified, UL Listed liquid tight conduit hub or cable gland must be fitted in the enclosure for the ac power entry wiring

Mains input must be 85-264VAC.

The setting up of the lamp is critical in obtaining the best performance from your Extreme Lamp.



ZXLED Issue:3

- Attach the ZXLED mounting bracket to your pan & tilt unit or wall bracket as desired.
- Adjust for the horizontal target area of lamp. Adjust the vertical alignment by loosening the side bolts (one each side of main body).

- Tilt the lamp downwards until the near part of the required field of view is saturated with Infra-Red (as viewed on the monitor).
- Slowly and gradually tilt the lamp upwards until the far part of the required field of view is also illuminated (on the monitor). See Fig.1.

IMPORTANT

1. Ensure that polarity of the lamp connections is correct (red is positive).
2. Ensure that the 'Hi' power setting is used only for external applications or in ambient operating temperatures less than 40°C.
3. Connect ZXPS.100R to mains input between 85 and 264VAC.
4. For continuous night-time operation insert a link between the telemetry terminals (factory setting). For remote control, link telemetry connector to 0V with latched volt-free contact.

'ZXPS.100R' Installation Instructions

Extreme has designed dedicated power supplies to operate the Extreme range of Infra-Red Lamps.

All installation and maintenance functions should be carried out by qualified and competent personnel.

This power supply provides the following functions:

1. Adjustable photocell switch for automatic day/night switching.
2. Regulated output current/voltage to provide correct current/voltage supply to ZXLED.
3. Hi-lo Power Setting.
4. Remote switching input. Telemetry interace to allow remote switching of lamp.

GENERAL

Each ZXPS.100R powers and controls a single lamp.

The standard unit supplied is designed to operate between 85-264V AC.

WARNING: Ensure that the mains supply is isolated before checking that all connections are secure and correct.

The unit should be located in a clean, dry area. It is mounted in an IP66 rated enclosure as standard.

Care should be taken during installation to avoid damage to any of the components. Extreme care should be taken with power tools as the control

circuits incorporate sensitive components.

Ensure that all fixings are secure and the lid is correctly in place.

The mains Input to the PSU should be protected by a 2A slow blow fuse or breaker.

NOTE: The ZXLED lamp housing is not connected to mains earth.

All transformer secondary and control circuits are floating. Earthing of the 0V signal must be done at the user 'control panel' end of the circuit.

Electrical connections should be sound. Upto 7A can flow in the lamp cable

DAY/NIGHT PHOTOCELL

Extreme provide a photocell mounted in the PSU enclosure as standard.

The PSU \ photocell should be mounted externally in order for it to monitor the prevailing light conditions.

It is mounted on the PSU enclosure as standard, but can be moved to a remote position up to 10 metres away with a light twisted two-core cable or miniture screened cable.

NOTE: The photocell is designed to monitor the average light conditions. It is important not to point the photocell at a nearby artificial light source as it will affect its performance. Also, it is important to ensure that the photocell is not blanked off. We recommend that it is mounted either horizontally or facing downwards on the enclosure (not upwards).

The photocell is designed to automatically switch the lamps ON at

dusk and turn OFF at dawn. A high degree of hysteresis is incorporated to avoid on/off switching in marginal light conditions.

The unit is factory set at approximately 20 lux ON and 70 lux OFF, but can be adjusted using the blue photocell sensitivity pot (VR1).

POWER SUPPLY

The current controlled supply is specially designed to provide the correct current/voltage to the lamp and can accommodate voltage drops across lamp cable length between 0.5m and 10m.

The life expectancy and radiated output of the LED is highly sensitive to the running temperature.

HI-LO POWER SETTINGS

A potentiometer is provided in the power supply to allow optimum operation of the lamp in both internal and external ambient temperatures.

Hi setting – Intended for external applications and ambient operating temperatures up to 40°C.

Mid to Lo setting – Intended for internal applications and ambient operating temperatures up to 45°C.

REMOTE SWITCHING INPUT

The lamps may be activated remotely by a volt-free contact latched across the telemetry connector.

MAINTENANCE

Extreme ZXLED lamps are optically precise units. There are no user repairable components within the unit

and it is therefore sealed for life. Do not attempt to dismantle or gain access to the unit.

TROUBLE SHOOTING

1. **Check mains supply.** Mains input to the power supply should be 85-264V AC,
2. **Check fuse (2A slow blow).** The mains input to the PSU should be protected by a 2A slow-blow fuse or breaker.
3. **Check lamp output from PSU.** With telemetry link closed and photocell covered, check voltage at the lamp output terminal on the PCB.

Approximate voltages with lamp connected (on load):

850nm lamp – 16.5V (Hi setting).

Check that the open/close telemetry link switches the lamp on/off when the photocell is covered or disconnected.

4. **Check photocell functions** by covering with black tape and having the telemetry link closed.
The photocell operation has an in-built delay of up to 2 seconds.
5. **Check the Hi/Lo settings of the PSU.** Ensure that the **Lo** setting of PSU is used for **internal** applications or where ambient temperature is in excess of 40°C.