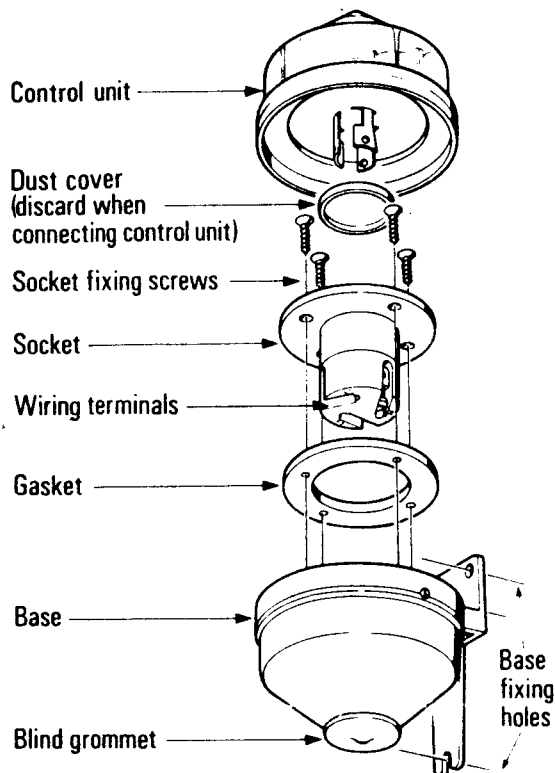


Installation and Wiring Instructions for



Photocell kit QPK and part night kit QPK PN



The kit consists of 3 parts – control unit socket and baseholder/bracket.

HIGH PRESSURE SODIUM – To operate more than one lamp use addition contactor. The calibration is fixed in the factory and is not variable.

PHOTOCELL CONTROL UNIT IN QPK

This control is designed to switch a lighting load on and off automatically at dusk and dawn. This unit is pre calibrated to switch at light levels which ensure that outdoor lighting is on when required, allowing for a 10 minute warm up period for sodium or mercury discharge lighting. It is, however, suitable for use with all types of lighting, i.e. tungsten, fluorescent or discharge.

Supply	180 – 260V 50-60 Hz
Rating	5 amps – or in case of high pressure sodium 1 – 1000 Watt lamp – see above.

	QPK	QPKPN
Switch on Setting	70 lux	70 lux
Switch off Setting	105 lux	105 lux

The unit incorporates a time delay to prevent operation by car head lamps, lightning, etc.

They are omni directional and therefore reference to North light is *not* necessary.

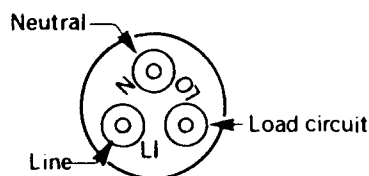
INSTALLATION PROCEDURE

Separate the three units – the baseholder and bracket the socket and control unit.

HANDLE THE CONTROL UNIT CAREFULLY TO PREVENT DAMAGE

1. Choose a suitable site for the control as follows: –
 - a) Avoid a position where direct light from any lighting unit can fall on the control.
 - b) Choose a position out of direct sunlight if possible – this is not essential but is desirable.
 - c) Mount out of reach of non-authorized persons.

2. Drill three mounting holes for baseholder using the bracket as a template and fix to wall or post.
Holder will accept 20mm conduit fittings as an alternative to plain cable entry. If plain cable is used, pierce the grommet and draw the cable through to maintain the seal.
ENSURE THAT CABLE USED IS SUITABLE FOR OUTDOOR USE AND OF ADEQUATE CURRENT CARRYING CAPACITY.
3. Wire up the NEMA socket to following diagram: –



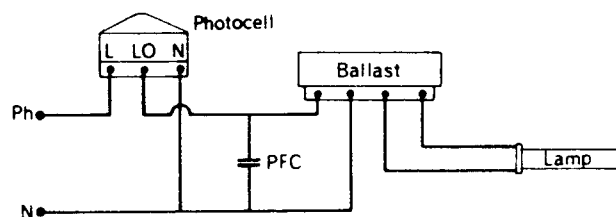
NOTE: Lo is the switched live lead, (live only during darkness), use as phase supply to control gear, or alternatively a contactor coil if the load is in excess of control rating.

4. Fix the socket into the holder using 4 No. 8x3/4 self tapping screws provided – ensuring gasket is fitted beneath flange of the socket
5. Plug in the control unit – the large pin into the large slot – ROTATE CLOCKWISE to lock into position.
6. Test by covering cell completely with opaque cover – (packing box is ideal); wait for 40-60 secs. for time delay to take effect. Remove cover to check switch off action.

IMPORTANT:

CELL IS STILL LIVE WHEN LAMP IS OUT. THEREFORE, ALWAYS ISOLATE SUPPLY TO THE CONTROL BEFORE REMOVING PLUG-IN UNIT OR SOCKET OR INDEED BEFORE CARRYING OUT WORK OF ANY DESCRIPTION ON THE INSTALLATION.

TYPICAL WIRING DIAGRAM (90W SOX ILLUSTRATED) WITH PHOTOCELL



ADDITIONAL NOTES FOR PART NIGHT UNIT (Cat. No. QPKPN)

This unit additionally switches off at approx. midnight, and if still dark on again at approx. 5.30 a.m. Use of dedicated integrated circuit means there is no clock requiring setting, time being calculated from dusk and dawn. Install as standard unit. The unit takes three or four nights to establish midnight (approx.) and 5.30 a.m. in the integrated circuit memory. The first night it will operate all night. Note if supply is interrupted the memory is erased and it takes three more nights to establish timing.

INSULATION TESTING BY "MEGGER" can be carried out on circuits including photo-electric cells, but not continuity tests, as the high voltage used may damage the cell.