

# Model ICU2

Combined Passive Infra Red Detector and 100 Watt Bulkhead Fitting.  
OPERATING / INSTALLATION INSTRUCTIONS.

## FEATURES

The ICU2 P.I.R./ 100Watt Bulkhead is capable of directly switching on additional lighting up to 900watts (Tot 1Kw)

The ICU2 can replace an existing lamp fitting.

Up to one kilowatt of tungsten or halogen lighting can be switched.

Detection pattern of 120 degrees with variable range.

Fully adjustable detector from left to right and down.

Three easily accessible control adjusters.

Light sensor. ( Day light to Dusk ). Approximately.

Timer. ( 10 seconds to 5 minutes ). Approximately.

Sensitivity. ( 5 meters to 15 meters plus ). Approximately.

## DO'S AND DON'TS

Try to fit the ICU2 where people are likely to walk across it rather than towards it for best results.

The ICU2 will not respond very quickly when walking towards it.

Avoid placing the unit where it can see a central heating boiler outlet as this could cause false detection in cold weather.

Do not allow foliage to grow around the detector as windy weather will cause false detection.

Do not use a lamp of more than 100 Watts in the bulk head.

## FIXING

First decide where you want to place the ICU2. Try to choose a position where the lamp has the best lighting effect and the detector has a good unobscured view. The best height for the unit is about 2 to 2.5 meters above the ground.

You may want to replace an existing outside light with the ICU2 where the power cable and a switch are already in place and will have a fuse in circuit.

To begin, remove the lamp cover and then knock out an appropriate cable entry and screw holes.

Now secure the unit to the wall and pass the power cable through the cable knockout hole and fit a cable gland for a water tight joint and to provide cable anchorage according to I.E.E. regulations.

If in doubt consult a qualified electrician.

## MAINS CONNECTION

The cable supplying the unit should be 1.5mm twin and earth or equivalent and be fused appropriately according to the lamp load you are switching. Use a switched fuse spur unit.

Up to 500 Watts; 3Amps. Up to 1000Watts; 5Amps.

Connect the supply wires into the terminal block found inside the ICU2. The terminals are marked Line In , Neutral Line Out and Earth. Use the Line In and Neutral terminals and connect the Earth to the brass Earth screw. Now fit a 100 Watt lamp (not supplied) and replace the lamp cover. This unit must be earthed.

## EXTENSION LIGHTING.

The ICU2 can switch a total of 1000 watts of halogen or tungsten lighting.

To connect further lights, proceed as follows. Knock out a cable entry hole in the bulkhead and insert the additional cable for the extension lighting. Waterproof the cable entrance as previously described under FIXING and connect the wires to Line Out, Earth and Neutral sharing the Earth screw and Neutral terminal with the mains in wires.

## TESTING AND COMMISSIONING

Check all the wiring for continuity and leakage and when satisfied, switch on the power.

Turn the day/night and timer control knobs anti clockwise so that the detector can work in the daylight and for the minimum time of about 10 seconds. Turn the sensitivity control to about half way. Now slacken the horizontal and vertical locking screws and adjust the detector to view the area you wish to cover. Re-tighten the screws and begin walking around the protected area.

Turn the sensitivity control knob to the + or - to increase or decrease the detection range as required.

IMPORTANT. Always walk across the view of the ICU2 and not towards it for best results and each time the detector switches on stand motionless until the light goes out, this is because if you continue moving the timer will keep topping up and the light will not go out.

When you are happy with the results turn both the timer and day/night controls clockwise to increase the time and to inhibit operation during daylight.

These controls may be varied to suit your individual requirements.

N.B. When the light sensor control is turned fully clockwise the lights will not operate until the evening.

The light sensor control does not affect the Mains Signalling transmission which operates both day and night.

**TECHNICAL HELP LINE 020 8361 5255**