

The DUS804C-UP is a 360° ceiling surface mounted sensor that combines Ultrasonic (UP) Passive Infra Red (PIR) motion detection, ambient light level detection (PE) and infra red remote control reception (IR) in the one device. In applications such as office buildings, lecture theatres, and homes, the DUS804C-UP universal sensor can be utilised to detect motion with in its scan area to trigger a programed action with the lighting. When the DUS804 has detected a room is unoccupied for a set time, lights can be automatically dimmed or switched off to provide energy savings. The same sensor provides IR control reception to enable full remote control over lights, audio-visual equipment and blinds. A range of hand held infra-red transmitters to complement series of universal sensors are available. In situations where it is critical to maintain precise lighting control for large workspaces such as open office floor plan, the DUS804C facilitates light compensation in an automatic "Daylight Harvesting" mode for energy savings.

## technical data >>



DUS804C-UP with surface mounting

### Motion Detection

#### PIR:

Maximum detection range: 5.0m  
Detection area: 7.4m x 5.6m ellipse (at a height of 2.5m)  
Detection speed: 1.0m/s  
Detection object: 700mm x 500mm  
Detection zones: 64  
LED activation indicator  
Adjustable Pulse Count & Sensitivity  
Sensor: Quad element pyro-electric  
R.F.I. Immunity: >15V/m @ 10-1000MHz

#### Ultrasonic:

Normal motion detection area:  
8m x 16m (128m<sup>2</sup> coverage)  
Slight motion detection area:  
4m x 12m (48m<sup>2</sup> coverage)  
Transducer pairs: 2  
Operating frequency: 32KHz

### PE Cell

Range <5 lux to >5000 lux (reflected)  
Automatic "Daylight Harvesting" mode

### Infra Red Remote Control Receiver

Range >6m  
LED activation indicator  
Can be used with DTK500 series infra red remotes or other learning IR remote controls

### Control IO

Serial Port – RS485 DyNet  
IR window used as network sign on

### Terminals

5 way removable terminal strip,  
1 x 2.5mm<sup>2</sup> max conductor size

### Controls

Walk test/IR received LED indicator

### DyNet DC Load

80mA

### Configuration

All functions remotely programmable

### Operating Environment

0° to 45°C ambient temperature  
0% to 95% RH non condensing

### Compliance

CE, C-Tick

### Construction

ABS plastic enclosure

### Dimensions

90mm diameter x Depth 26mm (exposed)

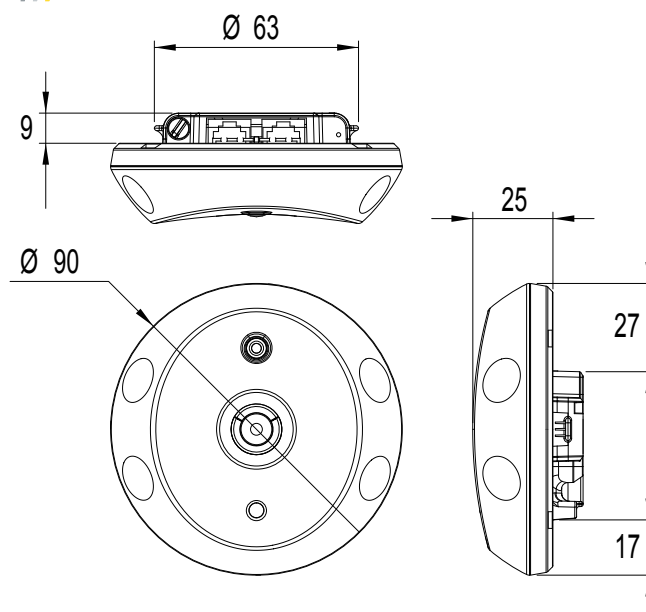
### Mounting

Recessed spring clip or adjustable surface mounting ring. Sensor shipped with surface mounting ring

### Weight

Packed weight 0.25kg

mounting dimensions >>>



coverage >>>

