



Dimming system

Light level control

Daylux is a flexible and modular range of dimming products permitting maximum energy and cost savings.

- Fully automatic lighting dimming control
- Dramatic reductions in electricity use
- Helps reduce global CO₂ emissions
- Analogue or digital control
- Versatile modular system
- Simple to install



Setsquare

Setsquare Limited was established in 1981 with the intention of providing the market with technology-based conservation products. As a founder member of the energy conservation industry, Setsquare has developed an enviable reputation for highly innovative, high quality, reliable products and a standard of pre-sales and after-sales service which is second-to-none.

Savings

Normally savings in energy usage of about 40% can be obtained from the installation of Setsquare products. Product and installation can normally be financed from savings achieved in only a few years. All you will notice is an immediate reduction in your bills.

Benefits

In addition to reducing energy bills, organisations have come to appreciate the benefits, both financial and environmental, of properly managed resources. Occupancy sensors also provide improved convenience, a better working environment and increased security.



The Daylux range

Welcome to the Daylux range from Setsquare. Daylux saves electricity by automatically maintaining a pre-set lighting level in the working environment, reducing the lighting output when there is adequate natural light, increasing lighting output when sunlight is limited and switching off lighting when an area is vacated.

The range is as versatile as you want to make it and fully integrates with any of the other product ranges supplied by Setsquare.

For further helpful advice and information please call us on +44 (0)1732 851 888.





Daylux dimming

The Daylux modular system is capable of controlling up to 50 compatible ballasts via occupancy sensors and either a digital (Manchester Code) dimming signal or a stepped DC voltage (1-10V) in the analogue version. Once the area has been vacated, both systems may be set to dim lighting to a minimum level or switch off.



Control units

Analogue DLA
Digital DLD



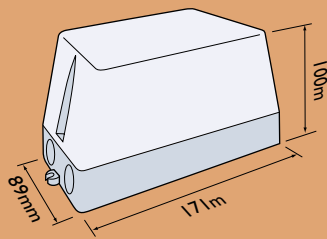
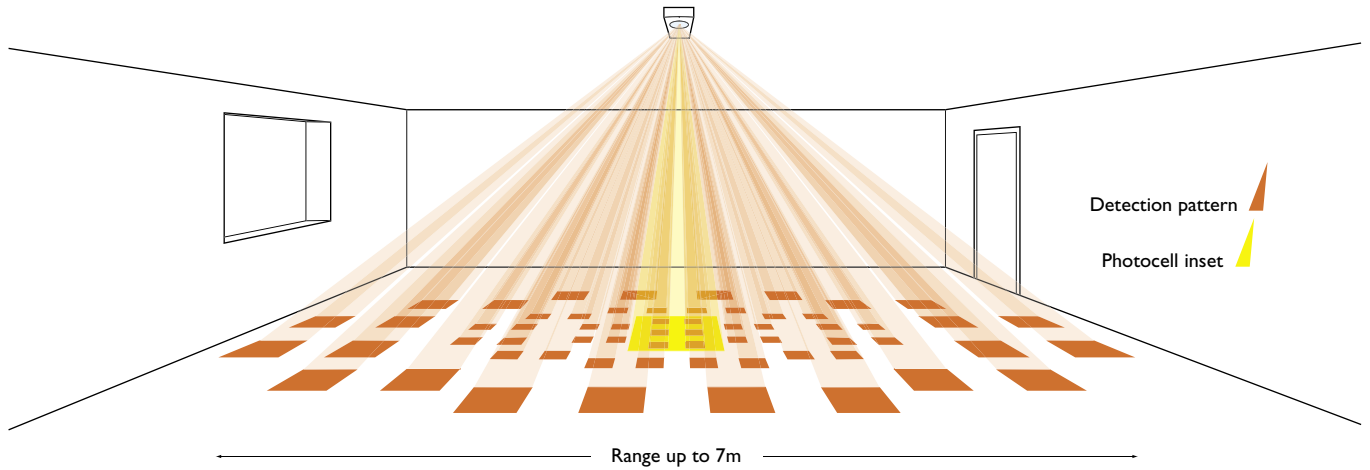
Infrared receiver
IRP2



Occupancy sensor
PDOCH

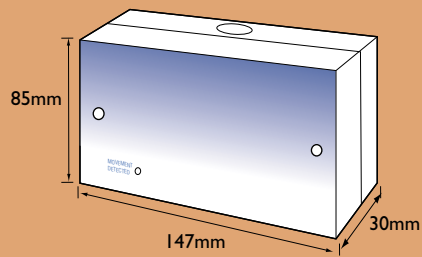


Photocell
ALD5



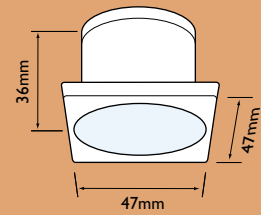
Contactor in enclosure (16A)

CEI 6
or relay Switch Unit RM 2 or 4

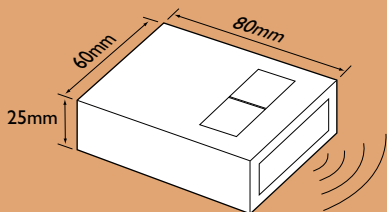


Control units

Analogue DLA
Digital DLD

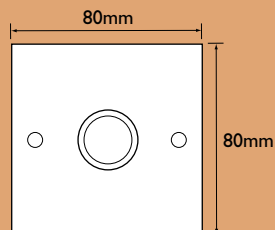


**Photocell /
Occupancy sensor /
Infrared receiver**



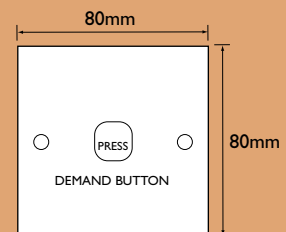
Remote control

IRT 2



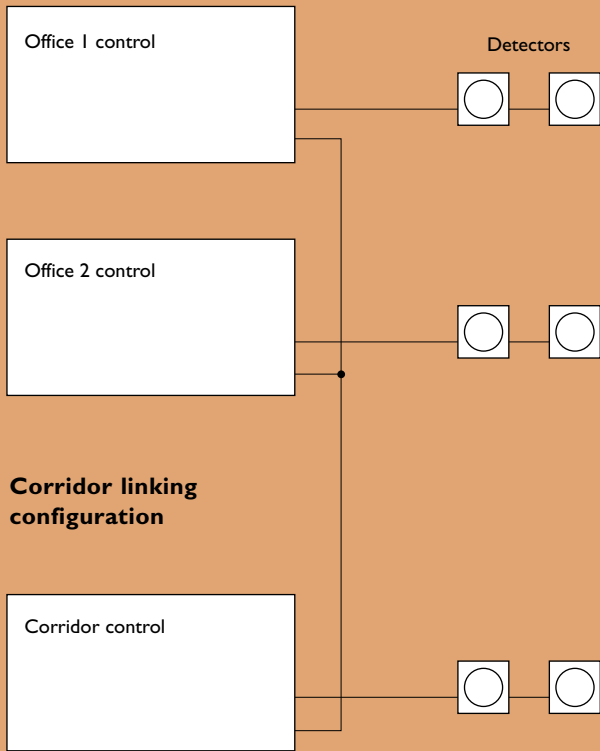
Rotary dimmer

RD

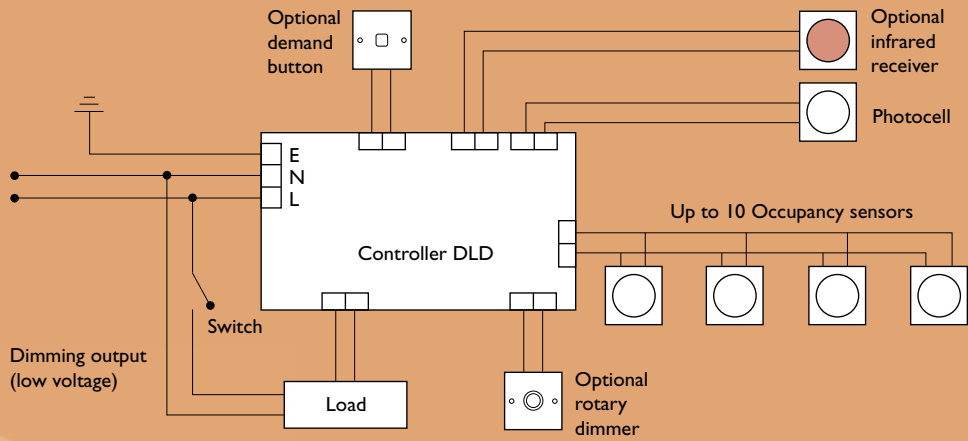


Demand button

DB



Typical electrical connection Digital version mains wiring



Note: All low voltage wiring via twin screened cable

Occupancy sensing

Up to 10 InfraPOD low voltage occupancy sensors may be linked to the controller along with inputs from a light level sensor, a remote control receiver and rotary dimmer. To simplify installation, the controller is supplied in a standard two-gang enclosure with conduit entry points.

Corridor link facility

The controls of the Daylux may be linked via low voltage cable. In the diagram any occupied office would hold on corridor lighting. If the corridor is occupied, lighting in the corridor alone will be maintained.

Switching analogue or digital ballasts

Digital Manchester encoded ballasts are controlled directly by the digital signal. This eliminates the requirement for a relay as at minimum signal the ballast switches off the lamps.

Demand button

The demand button ensures lighting is only brought on by pressing the button.



Specification controller

Supply voltage	230V 50Hz <i>(other versions available)</i>
Switching capacity DLA	8 HF ballasts
DLD	50 compatible ballasts <i>(Manchester code)</i>
Dimming capacity DLA	50 compatible ballasts <i>(1-10V DC)</i>
DLD	50 compatible ballasts <i>(Manchester code)</i>

Sensors

Supply voltage	12V DC
Occupancy sensor PDOCH	Passive infrared sensor <i>(up to 10 per control)</i> Superior 360° pyro element
Range	3.5 metre radius <i>(2.7 metre ceiling)</i>
Height	Maximum 5 metres
Colour detector	White <i>(clear lens)</i>
Photocell ALD5/3	Eye response photo-diode 0–300 lux
Colour detector	White <i>(white lens)</i>
*Remote control receiver IRP2	
Colour detector	White <i>(blue lens)</i>
*Remote control transmitter IRT2	
Range	5 metres
*Rotary dimmer RD	Standard single gang switch size <i>(other versions available)</i>

**Optional*



Setsquare products

Setsquare's range of energy conservation products and services includes:

- Lighting controls
- Marshalling boxes
- Occupancy sensors
- High bay lighting
- Lighting dimming systems
- Scene setting
- Time delay switches
- Heating controls
- Wash-room flush controls



A range of Setsquare lighting controls has been evaluated by The Buying Agency, an Executive Agency of the Cabinet Office, and has been approved for supply to the public sector.



All Setsquare products are designed, manufactured, supplied and installed to BS EN ISO 9001: 2000



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Due to the policy of continual development, Setsquare Limited reserve the right to alter specifications without prior notice.

