mySmart
INTELLIGENT ENVIRONMENTS

SCREEN AUSTRALIA

45 Jones St, Sydney

CASE STUDY

mySmart

SCREEN AUSTRALIA
45 JONES STREET, SYDNEY

PROJECT DETAILS:

Location	Ultimo, Sydney NSW, Australia
Type of Building	Heritage Commercial Offices
Fit-Out Architect	Hassell
Electrical Consultant	Aston Consulting
Electrical Contractor	EDV
Fit-Out Contractor	Sherington Project Management
Project Manager	Hamilton Projects

ABOUT THE BUILDING

Home to Screen Australia, 45 Jones Street is a landmark building in the inner-western Sydney suburb of Ultimo.

Designed by one of Australia's leading architects, Herbert E. Ross, it was originally built for the Co-operative Wool and Produce Company in 1899. During his career Ross went on to design two of Sydney's iconic buildings; the Commonwealth Bank building in Martin Place and the Mark Foy's Ltd. building on Liverpool Street. 45 Jones Street was used as a wool store until the 1950's before being converted to premium offices in 2005.

As the Commonwealth Government agency that provides support to Australian film, television, documentary and digital media makers, the key drivers for the move by Screen Australia to the new offices were to increase staff comfort and reduce its operating costs. 45 Jones Street has a 4.5 star NABERS energy rating and the fit-out designed by Hassell is light, bright and takes advantage of the high cathedral-like roof space. Energy efficient LED lighting is used throughout the office with further efficiencies gained from mySmart presence detectors.

MYSMART LIGHTING CONTROLS

mySmart offer a range of presence detectors and lighting sensors that deliver increased energy efficiency to any type of building. At Screen Australia the move to the new Ultimo office was under strict budgetary provisions and as such, all costs were carefully scrutinised.

When Aston Consulting pared the design brief down to its essential elements they realised that the desired functionality of the lighting control system did not revolve around set operating scenes as a networked solution would do, but rather around the need to have the right lighting available in the immediate area only when users were present.

Associate Director Josh Williams, explains, “At Aston Consulting we seek to offer our clients real energy savings through effective design. We worked closely with mySmart to design the lighting controls and by using mySmart we have been able to implement a solution that reacts to the movement and flow of people around the Screen Australia office ensuring that the minimum amount of energy is used.”

This is the key to significant energy savings with presence detectors and motion controlled lighting. If no-one is present then the lights are switched off and no energy is being consumed. The time delay between when the last person leaves an area and when the sensor switches off the lights is also adjustable from 3 seconds up to 99 minutes.

To reduce energy consumption even further with daylight harvesting and modern high performance photocell sensors, the lights can also be automatically dimmed to operate using the minimum amount of energy possible.

CUBICLE OFFICE
MS-EBMPIR-PRM

On the north and south facades are cubicle office spaces with a single light fitting in each one. Mounted directly to every fitting is an EBMPIR-PRM miniature OEM PIR sensor. Very simple and very effective!

CORRIDOR
MS-MWS3A-PRM

An open corridor runs along the western side of the building from the breakout area to the southern open plan office area. Located on each end are two MWS3A long range microwave sensors.

MEETING ROOMS
MS-EBDSPIR-PRM

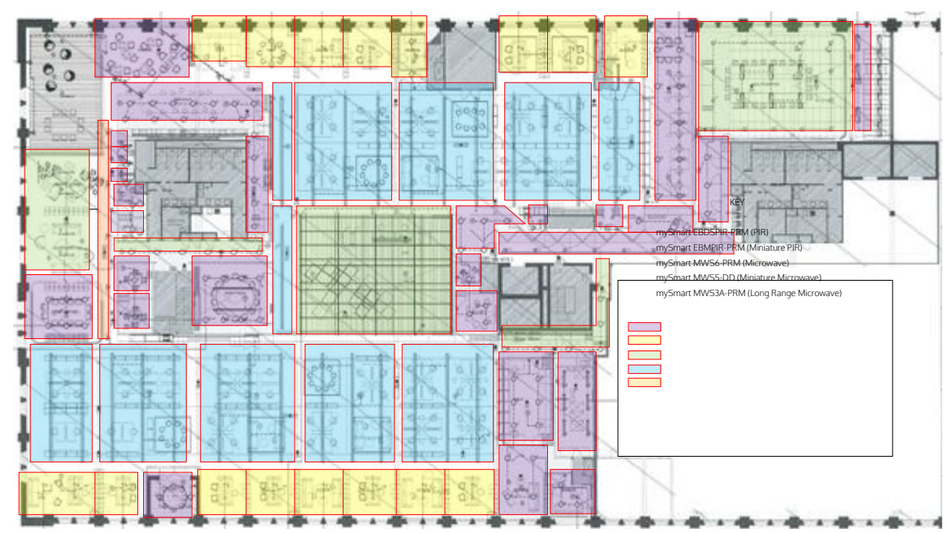
There are a number of meeting rooms/areas across the floorspace to compliment the open plan work stations. In these spaces EBDSPIR ceiling mounted sensors are used to control the lighting.

COMMON AREAS
MS-MWS6-PRM

The breakout and common areas, with many entry points, require a sensor to cover a large area. MWS6-PRM sensors are used to detect movement over a wide field of view.

OPEN PLAN OFFICE
MS-MWS5-DD

Around 20% of the floor space is open plan work stations with overhead lighting bars. Housed within the lighting bar MWS5-DD microwave miniature detectors are used to control a group of 3 bars.



MYSMART SENSORS VS. NETWORKED LIGHTING CONTROLS

The Screen Australia project gives us a great oppurtunity to directly compare mySmart sensors versus a typical scene based networked lighting control solutions.

RESPONSIVE VS. PREDICTIVE LIGHTING CONTROL

The biggest difference between presence based and pre-set scene based lighting is that a scene based lighting control system is designed as a prediction of what lighting the occupants of a space will require. Responsive lighting control, as the name suggests, is designed to respond quickly and effectively to changing occupancy levels and users can easily fine tune the programming of the sensors if needed.

INSTALLATION

mySmart sensors either directly connect to one light or control a limited number of lights in the immediate area. This reduces investment in materials and labour, especially that spent on control cables. Heritage buildings like 45 Jones Street can increase the savings even further as costs for traditional cabling can easily blow out due to the difficulty in running cables and complying with heritage order restrictions.

REPORTING: DO YOU REALLY USE IT?

Many networked lighting control solutions offer the ability to output performance and diagnostic reports however for most smaller buildings and tenancies they are either not required or seldom used. For Screen Australia given the relatively compact floor plan they decided that such detailed reporting didn't suit their needs.

PAYBACK PERIOD

As noted previously Screen Australia were under strict budgetary restrictions in their move to the 45 Jones Street offices. The mySmart presence detectors cost Screen Australia less than 60% of an equivalent networked solution. Given that the energy efficiency savings will be very similar we can see that the payback period in this case is dramatically reduced.

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INTELLIGENT ENVIRONMENTS

mySmart is an Australian company at the forefront of creating intelligent environments across a wide range of sectors from smart buildings to smart agriculture. Our solutions are customer centric and incorporate innovative technologies and the latest sensor design, control, functionality and analytics.

Our highly trained, industry qualified Consultants and Smart Building Specialists design, optimise and service environments to enhance user comfort and productivity, whilst minimising operational costs and resource consumption.

mySmart, originally established as Complete Technology Integrations (CTI) in 2001, is a wholly owned Australian company. With a national footprint and over 60 employees, mySmart operates across a multitude of markets including commercial offices, residential, industrial & agriculture, government, retail, hospitality, health & aged care, education and leisure.

Our solutions include:

- Lighting Control and building automation
- Asset Performance Analytics
- Energy Management
- Smart building systems
- Guest Technology
- System Management Programs
- IoT Applications
- mySmart Sensors and associated products
- Unique custom solutions

mySmart. Building smart cities one mySmart Building at a time.

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