Bring energy savings and sustainability to the desktop

ISOLÉ™ PLUG LOAD CONTROLS

PUTTING A STOP TO ENERGY WASTE®

WattStopper®

Realize energy savings by turning plug loads off

Why keep plug loads operating when no one is there to use them? Isolé ends the energy waste by turning plug loads on and off based on occupancy.

The **Isolé IDP-3050** consists of an eight-outlet power strip with surge protection and a personal occupancy sensor that utilizes the latest passive infrared (PIR) technology. When the sensor detects occupancy, it turns on controlled outlets. When the space becomes vacant, the sensor turns off these outlets automatically after the preset time delay expires.

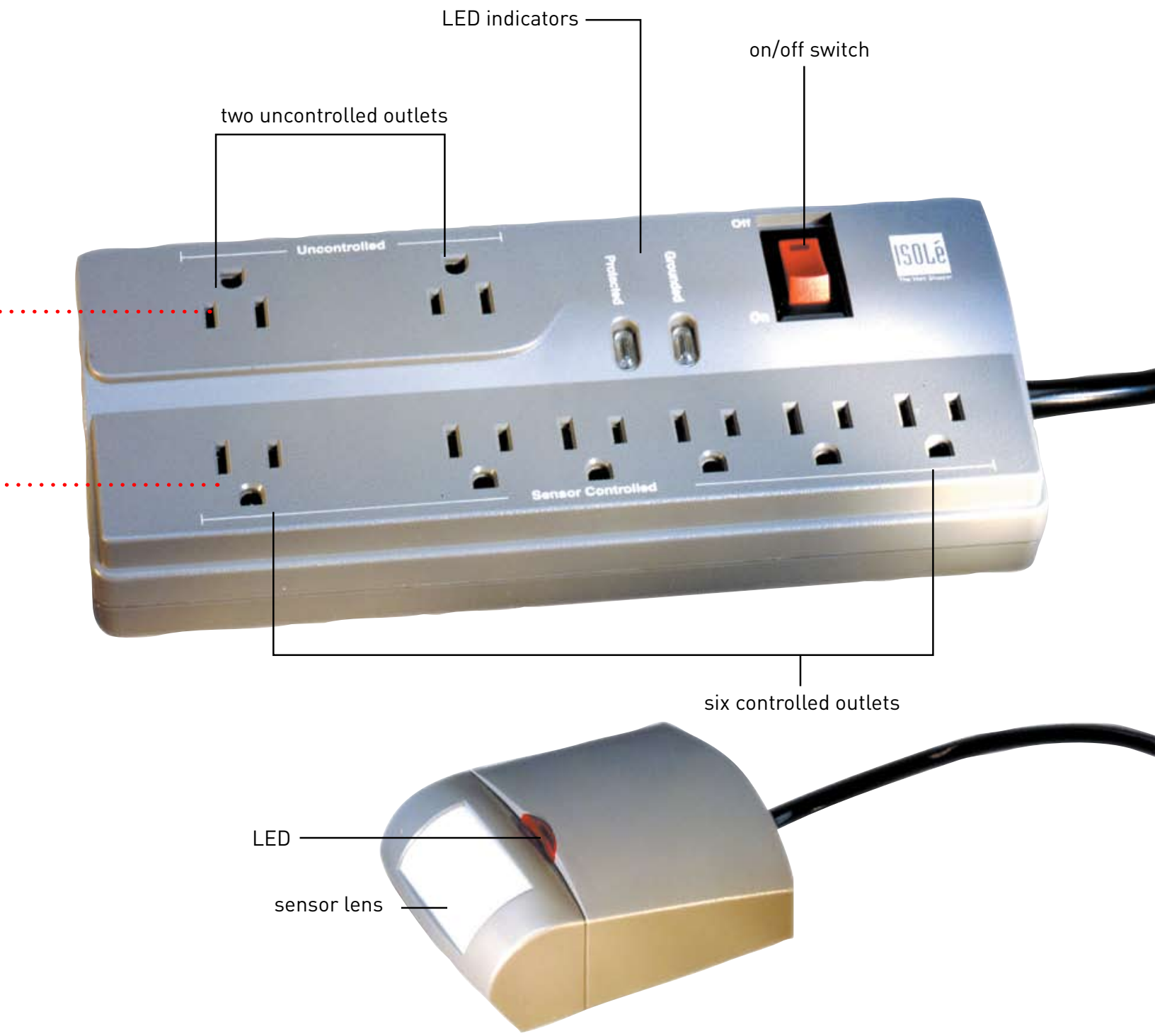
Plug loads account for an increasing percentage of the total energy consumed by buildings—up to 15 to 20% in homes and commercial buildings. According to the EPA, "energy consumption by office equipment represents the fastest growing use of electricity in the country."

How much energy can users save?

A single workspace can consume 1,500 kWh each year with an average cost of $175 (and growing)! Add up the cost of every workspace and the amount is staggering. Isolé can dramatically cut this cost with energy savings of up to 50%.

Essential machines (hard drives, faxes) use uncontrolled outlets to remain operating continuously.

Equipment that isn't needed when the workspace is unoccupied (e.g., monitors, task lighting, printers) plug into controlled outlets that respond to the occupancy signals.


LED indicators
on/off switch
two uncontrolled outlets
Uncontrolled
Protected
Grounded
Off
On
ISOLé
Sensor Controlled
six controlled outlets
LED
sensor lens

What Isolé users have to say

Works brilliantly, 06/19/2008

★★★★★ Reviewer: Scott (San Francisco, CA)

I have a WattStopper sensor connected to my desk lamp at work . . . Whenever I leave, the lights turn off. When I return, they come back on. It took a little bit of adjusting to aim the sensor so it didn't "see" other people, but now it works well and I can control the time delay (for those moments when I'm frozen in deep thought and still want light).

I actually wish I had this product so that my desk lamp and other things . . . would also turn off . . . . Anyway, if I did it again, I'd just get this product instead of the other lamp control.

Accessed on 10/15/08 (www.terrapass.com)

Isolé automatic plug load control helps facilities address energy codes and achieve sustainability goals

ASHRAE 90.1-2004, -2007 and -2010 mandate a maximum lighting power allowance (LPA) for each building, which normally includes furniture-mounted task lighting (e.g. under cabinet lighting that plugs into a receptacle). When this plug load is controlled by an automatic shutoff device such as Isolé, it can be excluded from the LPA calculation. The energy savings allows design flexibility for other types of lighting.

Whether or not automatic controls are installed, the code requires an integral or nearby control device (e.g. a switch) for all installed task lighting.

ASHRAE 90.1-2010 stipulates automatic control of 50% of receptacles installed in private offices, open offices and computer classrooms, including receptacles installed in modular partitions. One solution is occupancy-based Isolé control.

The U.S. Green Building Council's LEED sustainable rating system also encourages control of plug loads, and automatic controls are an integral part of strengthening performance for Energy and Atmosphere (EA). Isolé can help with Prerequisite 2, Minimum Energy Performance, and EA Credit 1, Optimize Energy Performance, in LEED certifications for Existing Buildings, New Construction and Major Renovations, Schools, and Commercial Interiors.

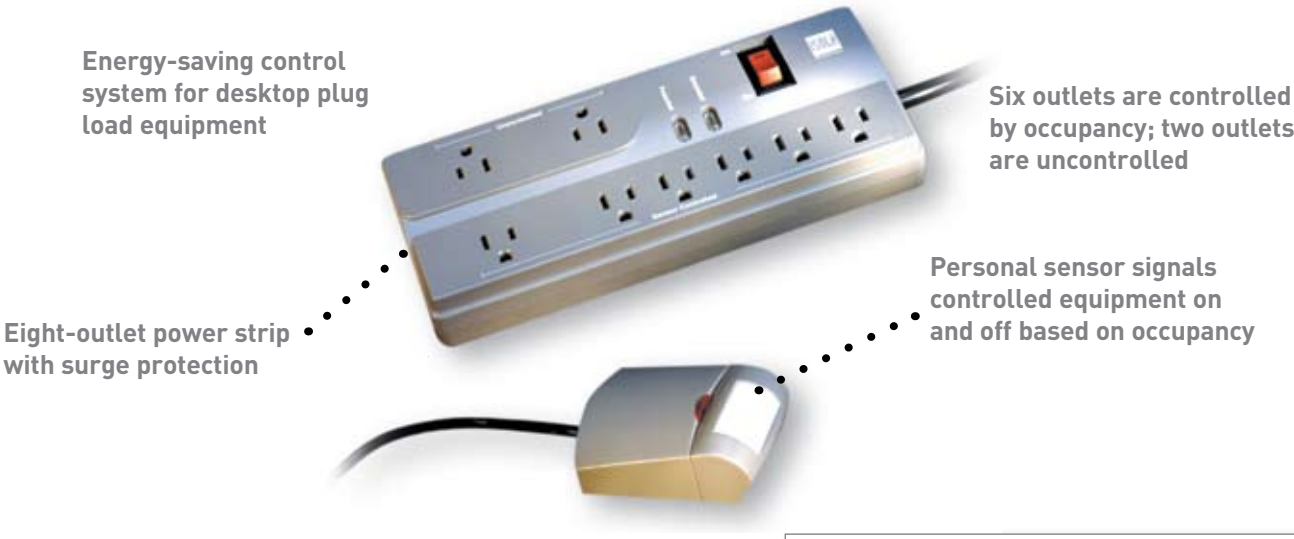
Saves energy and highly entertaining!, 05/20/2008

★★★★★ Reviewer: Pete (TerraPass staff)

Of the power strips we stock, this is the coolest yet. Basically, it turns stuff off when I leave my desk. I'm in a dark corner here at TerraPass so I often have a lamp with a CFL in it. Now the lamp, my monitor, and my phone all get turned off . . . . This thing is very cool. And everybody thinks I'm a magician!

Accessed on 10/15/08 (www.terrapass.com)

Isolé IDP-3050 Power Strip with Personal Sensor



PROJECT

LOCATION/TYPE

Product Overview

Description

The Isolé IDP-3050 is an energy-saving control system that provides maximum surge and noise suppression while keeping plug load equipment off when there is no occupancy. It consists of an eight-outlet power strip and a personal occupancy sensor.

Operation

The IDP-3050 turns plug load devices on and off based on occupancy. The personal sensor connects to the eight-outlet power strip with the attached cable. The power strip contains six outlets controlled by occupancy and two outlets that are uncontrolled. The IDP-3050 automatically turns all controlled devices on when the workspace is occupied, and off when the workspace has been unoccupied for the user-defined time delay. Uncontrolled devices remain on regardless of occupancy.

Surge Suppression

The power strip provides a high degree of surge suppression that protects connected equipment against threats like power surges, lightning strikes and voltage spikes. It features a resettable circuit breaker and two LEDs that indicate that the outlet is wired and grounded properly and the surge protection is functioning.

Application

The IDP-3050 is ideal for controlling task lighting and computer monitors. Additional devices for the controlled outlets include space heaters, fans and other equipment that can be turned off during unoccupied periods. Devices such as CPUs and fax machines should be plugged into the uncontrolled outlets. Applications include workstations, open office cubicles, offices and engineering stations.

Features

Power Strip

- Eight outlets; six controlled, two uncontrolled
- Surge and noise suppression protects desktop equipment
- Ground protected for safety; will not operate without a grounded outlet
- Two LEDs to indicate: 1) correct wiring and grounding; 2) surge protection is functioning
- Installation requires no hardwiring
- Flat offset plug for wire management
- One uncontrolled outlet and one controlled outlet are wall-transformer-enabled
- Plugs into a standard three-prong outlet

Personal Sensor

- Uses latest passive infrared (PIR) technology to detect occupancy
- User-adjustable time delay of 30 seconds to 30 minutes
- Multi-level Fresnel lens for superior occupancy detection
- 120° coverage, up to 300 square feet
- ASIC technology reduces components and enhances reliability
- Instantaneous response time

Specifications

Power Strip:

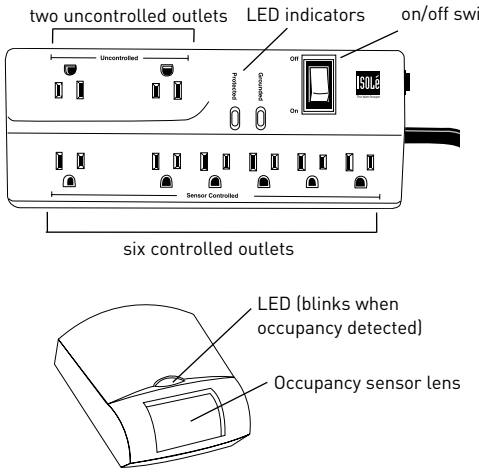
- Electrical rating: 120VAC, 12A, 50/60 Hz
- 12A dry contact relay
- Six-foot black cord
- Transformer provides power to sensor
- Mounts with screws or double-sided tape
- UL 1449 rating: 600V
- Circuit: High-energy, multistage hybrid
- Noise filtration: 0-25db (94.38%)
- Joule rating: 740 joules
- Maximum surge amperage: 48,000 Amps
- Protection modes: 500V L-N, 600V L-G, 600V N-G
- Response time: instantaneous
- Let-through voltage: 140V
- Initial clamping voltage: 200V
- UL and CUL listed; five-year warranty

Personal Sensor:

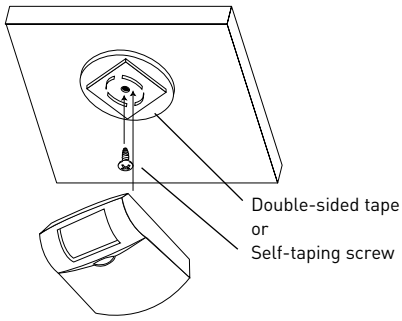
- Nine-foot connector cable
- Supply voltage: 12 VDC
- UL and CUL listed; five-year warranty

Controls & Mounting

Product Controls



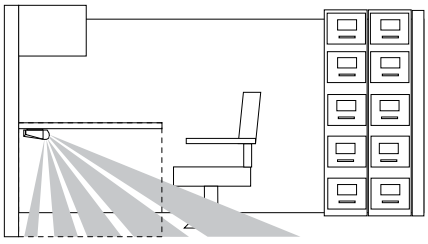
Personal Sensor Mounting



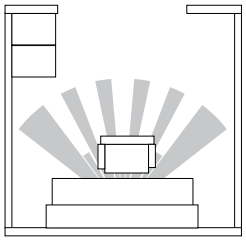
Sensor mounts under desk or binder bin with double-sided tape or self-taping screw

Coverage

Side Coverage



Overhead Coverage



Ordering Information

Catalog No.	Description
☐ IDP-3050-A	Eight-outlet power strip with personal sensor
☐ DI-110	Auto-on personal sensor
☐ CK1-1	20' extension cable w/single 1-1 connector (for single sensor and power strip)
☐ CK1-2	Two 10' extension cables w/duplex 1-2 connector (for multiple sensors and/or power strips)

Products are dark grey

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WattStopper Resources & Tools

CAD Resource Center

- Over 300 CAD drawings from which to choose
- Wiring diagrams you can place in your own CAD drawings
- Available at www.wattstopper.com

Support & Services

- Layout and design services
- Commission and start-up services
- District managers, trained representatives and experts available to answer all technical questions

Design Tools

- Free online energy calculators for lighting and plug loads
- Best Practice Guides
- Whitepapers and other education tools

Product Selection Guide

- Compilation of product ordering information, cut sheets, design and application assistance

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Please Recycle

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