

**SWITCH
GENIE**
MULTI-LEVEL
LIGHTING
CONTROL



**Light efficiency
for a healthy
environment**



SwitchGenie™ turn on only the lights you need

- Save energy — turn off lamps
- Simple, low cost system
- Easy to install & use
- Adjust light in fixtures or fixture groups with one control
- Space-specific — use only light needed in a given area
- Vary light output based on time of day, time clock, ambient daylight, motion or other input
- No dimming — proportional control

SwitchGenie is a simple, low cost light control system that saves energy and money by turning off individual lamps in fluorescent fixtures. Simpler and more efficient than dimming, SwitchGenie controls lamps in industrial plants, offices and retail buildings.

Space-specific — matches light output to needs in given areas. Saves energy and money in low light environments like computer rooms, storage areas, etc. Optional inputs include daylight, time, motion and others.

No dimming. SwitchGenie simply energizes individual lamps on a rotational basis (evens out lamp life within a fixture).

Pays for itself — in energy savings and power company rebates. Easy to try and easy to install. Just call or e-mail us for more details and the name and number of your SwitchGenie Representative.

Typical users

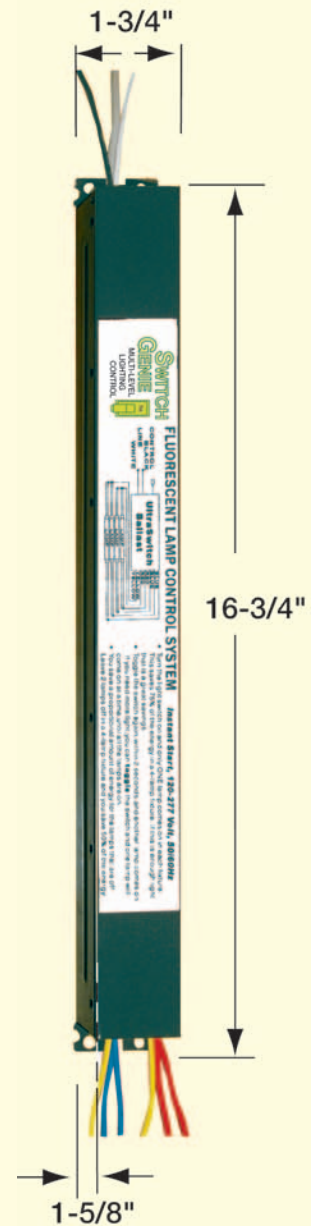
Printing companies & industrial plants
Office buildings
Conference rooms
Halls & corridors
Lunchrooms
Private offices
Any fluorescent fixture room

SwitchGenie is a simple, 2-component, low cost system that cuts your lighting bill, conserves energy and is environmentally friendly. It's easy to get started with SwitchGenie because you already own the control — your ordinary wall switch.

Just install the micro-processor enabled "brains-in-the-ballast" SwitchGenie smart ballast in a fixture or group of fixtures. Now you're ready to start saving money on your lighting bill.

The SwitchGenie is easy to install and inexpensive to buy. No control wiring, no black boxes, no dimmers. Control wiring is the 120 V AC power line. Users simply use a common wall switch to control up to 4 levels of light (see diagram opposite page). It's the fastest, most direct, most repeatable, lowest cost and easiest to install individual lamp control system available today.

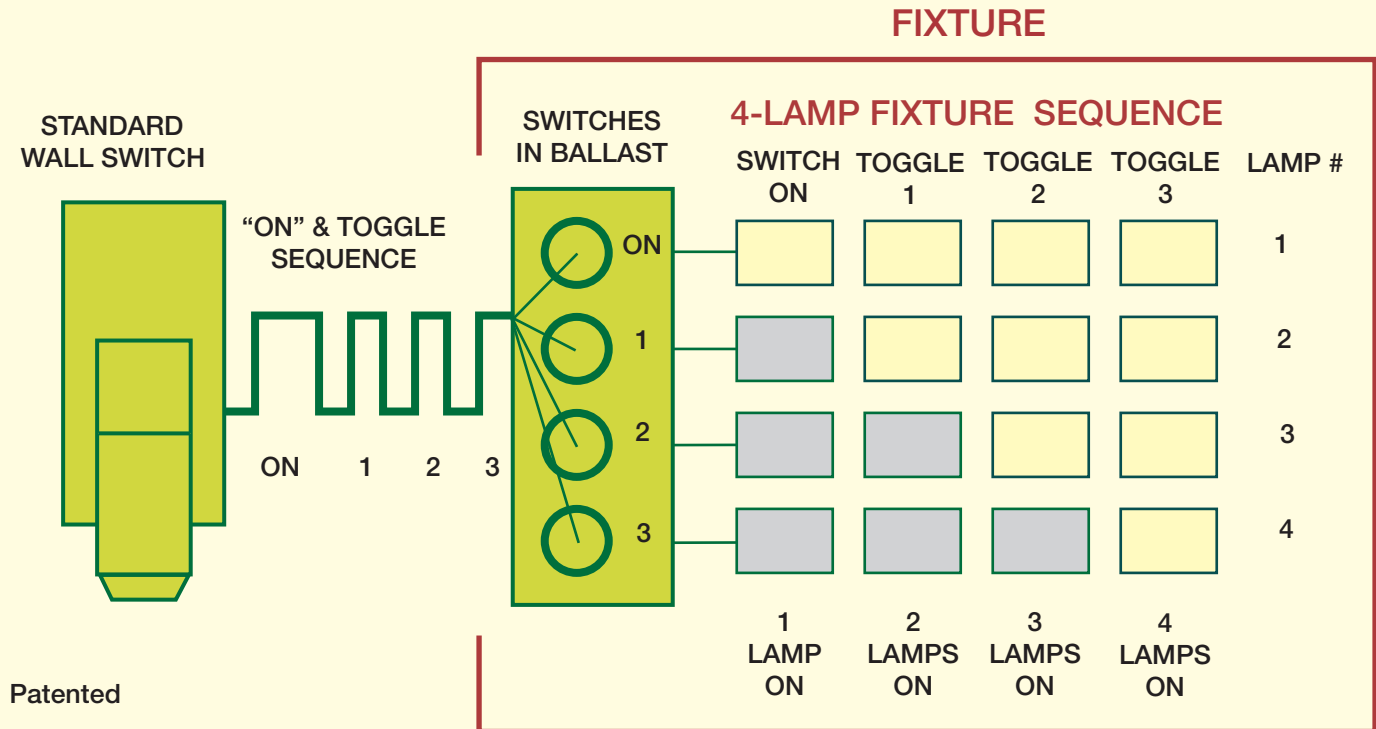
Lighting Groups, which include all individual fixtures controlled from one switch, may be established using elements from the SwitchGenie System. See back page for details.



How SwitchGenie works with 4-lamp fixtures

Just flip the wall switch as you normally would. The switch turns on one lamp in the fixture (“ON” areas in illustration below). This is the default position because (1) users often find they can work with light from a single lamp and (2) it accrues the most savings. Should you need more light the first toggle (quick “down-up”)

of the switch energizes a second lamp (yellow) while lamps 3 and 4 are off (gray). At the second toggle lamps 1 and 2 and 3 are energized while 4 is off. Toggle 3 energizes all 4 lamps. SwitchGenie rotates the off lamp(s) so lamp life is even across the fixture.



SwitchGenie — more efficient & repeatable than dimming

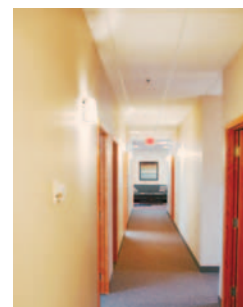
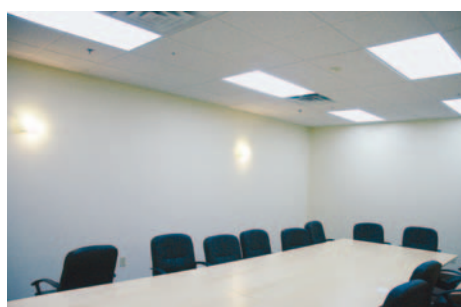
Dimming fluorescent lamps, while possible, is often difficult for several reasons. First, fluorescent lamps are most efficient when operated with voltage and current inputs at or near the maximum rated capacity. Operating efficiency is one of the reasons SwitchGenie systems turn lamps full on or off.

Initial cost is a second reason for SwitchGenie “on/off” system. At the basic level, SwitchGenie offers the same net effect (multi-level lighting control) as complex dimming systems costing 10-times more.

Total cost including system purchase and maintenance is a third SwitchGenie advantage. Simply stated, if you don’t have dimmers, control wiring, dimming ballasts and master controllers, you’ll never need to repair them.

Repeatability is a fourth SwitchGenie advantage. Your settings will generate the same amount of light today, tomorrow and next month. Dimming systems, by contrast, have settings outputs designated as “apparent” which tend to wander

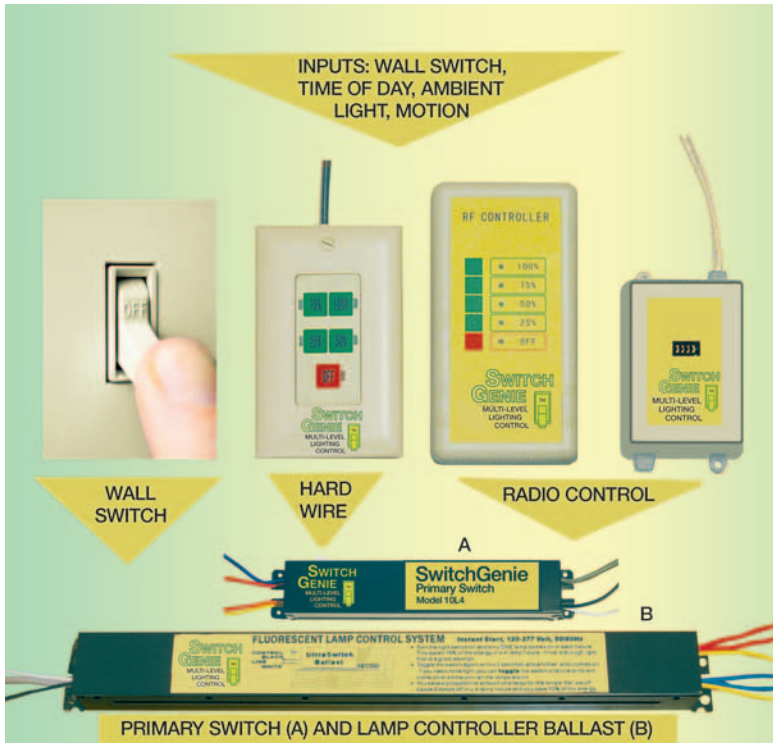
Linear output is still another SwitchGenie plus. If you have a 3-lamp fixture and you turn two lamps off, you have a direct and proportional energy savings of 66%. There’s no “apparent” light measurement, no smoke and no mirrors. What you shut off is what you save. Also, some dimming ballasts wander in output — light output from fixture to fixture and lamp to lamp are not necessarily the same. SwitchGenie, with Absolute Switching is predictable in both light output and energy savings



Estimated savings, simplified

Lamps in your fixture	Energy savings as you turn off lamps		
	3-lamps	2-lamps	1-lamp
4-lamps	75%	50%	25%
3-lamps		66%	33%
2-lamps			50%

In typical industrial plants, offices and commercial buildings, lighting averages 38% of your power bill (according to the D.O.E.) Lighting energy savings are in direct proportion to the lights turned off. SwitchGenie users typically find the human eye compensates for lower light levels — and reduced light generates savings without sacrificing visual comfort. The energy savings will more than offset any potential lamp life loss due to toggling.



SwitchGenie System — gives multi-level light from fixtures with 5 or more lamps and multiple ballasts*

SwitchGenie System includes a variety of controls to give you efficient, individual ballast control in fluorescent fixtures with 5+ lamps. The basic SwitchGenie System includes standard wall switch control over individual lamps within a fixture. No control wiring or black boxes. For more complex systems, 4-conductor, low voltage telephone cables allow microprocessor controls to provide sophisticated, energy-saving solutions by addressing individual ballasts within a fixture. Energy savings payback can be as fast as 1-year —or less if power company or local government rebates are available.

Automatic control options

SwitchGenie Occupancy Sensor detects motion and energizes lamps to a preset level. System can be passive infrared, ultrasonic or dual technology.



SwitchGenie Daylight Harvester is a ceiling mounted photo cell that captures reflected daylight and controls individual fluorescent lamps based on preset light levels.



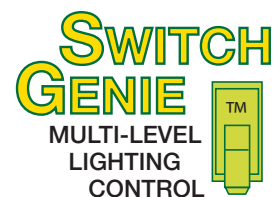
SwitchGenie Time Clock lets you set light levels based on time of day. Works with wall membrane controller and manual wall switch for overrides.



* SwitchGenie (previous 3 pages) is a simple, low cost wall switch & ballast product (controls up to 4 fluorescent lamps within a fixture).

SwitchGenie System controls multiple ballasts and is therefore capable of controlling 5

or more lamps within a fixture. SwitchGenie System offers fixture grouping capability and manual, R.F and automatic control options (see above). Both products give multiple light levels by controlling energy to individual lamps (SG) or lamp sets (SGS).



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