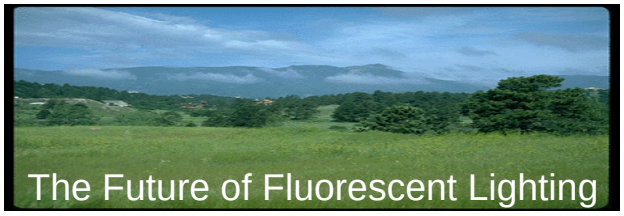
Energy
Saving
Daylight Harvesting
Integral Control Electronic Ballast



PRODUCT INFORMATION

Axis Technologies Inc. has developed a **low cost**, daylight harvesting electronic dimming ballast for fluorescent T-8 lamps. (Daylight Harvesting is the use of natural lighting to replace electric lighting in illuminating a room.) This control system allows each individual fluorescent fixture to significantly increase its energy efficiency over standard ballasts, and can reduce energy consumption up to 70%.

The patented Axis system produces energy savings two ways. First, it uses an integrated dip switch control to adjust the maximum light output (adjustable ballast factor), tuning the light to only the minimum needed to meet the room lighting needs. The light output can be adjusted from 100% down to 40%, in increments of 10%.

The second, and primary, method of energy saving is daylight harvesting. Each ballast has an integrated photo sensor that reduces electric light in direct response to increases in natural light. The photo sensor is automatic, provides immediate response, and requires no adjustments or maintenance. It will reduce energy below the dip switch maximum set light output, but will not exceed it.

While the Axis system dims the fluorescent light, it is important to note that the room light level is never reduced. The lights only dim as the room is growing brighter from natural light contribution. The dimming and brightening is continuous and automatic in direct response to the detected natural light, allowing the system operation to go unnoticed by room occupants.

With each fixture having its own photo sensor, a smaller zone of control can be realized, thereby increasing accuracy and allowing for higher energy savings.

The Axis system uses integrated hardwired controls, and no external controls or additional wiring are required. The simplicity of the design provides the lowest acquired and installed cost of any daylight harvesting system. **(Up to one-third the cost of a central control panel system)**.

This system has contributed to LEED Certification of five buildings in the United States.

Case studies can be seen at www.axistechnologyinc.com. Click on Success Stories on the home page.

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