Radio Window_{TM} sensor



Mullion-mount sensor pair

The Radio Window sensor works with Hyperion® solar-adaptive shading technology by:

• opening shades during cloudy conditions or in response to shadows from neighboring buildings

· lowering them in overly bright conditions such as glare reflected from neighboring buildings

Benefits

Optimizes energy savings

Opening shades in the presence of clouds or shadows allows for maximum energy savings from daylight harvesting, and reduces operating watts per square foot.

Maximizes comfort

Access to outdoor views/daylight helps improve occupant mood and increase productivity. When bright, glary conditions are detected, shades are automatically lowered to reduce eye strain.

Installs quickly

The sensor is wireless, making it easy to mount.

Flexible mounting

Available as a window-mount or mullion-mount pair.

Easy to maintain

System tweaking is done through Hyperion software.

Scalable

Use with a single shade or a zone of shades on a floor, façade, or entire building.

Key features

- Front accessible buttons make setup easy
- · Interior mount ensures protection from outdoor elements
- Discrete design for minimal aesthetic impact
- · Works with tinted and reflective glass surfaces
- 10-year typical battery life reduces maintenance costs
- Utilizes Lutron reliable Clear Connect_® RF technology





How it works

The Hyperion_® algorithm automatically moves the shades throughout the day to limit the depth of direct sunlight entering the space. The Radio Window sensor adds further functionality to Hyperion by taking into account variable conditions such as the weather, or shadows from neighboring buildings.

The sensor reports the measured amount of daylight on a façade to the Quantum[®] system. When the light levels drop below a configurable threshold range for longer than the predetermined timeout period, the sensor overrides Hyperion and the shades raise. When the light level is too bright and above the threshold, the shades lower to limit the amount of glare-causing light entering the space.



Direct Sun: Shades lower to keep the sun's

Shades lower to block direct sun

Bright Sky: Shades move to a predetermined position to minimize the contrast from the bright sky



Shades lower to reduce sky contrast

Reflected Sun: Shades close to block reflections from large surfaces



Shades close to block reflected glare

Overcast/Dark: Shades open to maximize views and available daylight in overcast or shadowed conditions



Shades open to maximize view

Sensor options

The Radio Window_{TM} sensor is available as a mullion-mount pair or a window mount. Both options offer the same sensing performance, but provide different mounting aesthetics.

Mullion-mount pair

- Discreet mounting: One sensor mounts to each side of a mullion
- Sold in pairs
- Available in white, black, gray, and brown
- Uses both sensor readings to
 provide optimal shadow detection



Depth: 0.7" (17 mm)

Window mount

- · Sensor mounts directly to window
- Sold individually
- · Available in white
- Flexible mounting location
- May require one-time relocation to achieve optimal shadow detection



Depth: 0.7" (17 mm)

Controlling multiple shades with 1 sensor pair



Controlling 1 shade per sensor pair



Controlling multiple shades with 1 sensor



Controlling 1 shade per sensor



What type of control is important to your project?

Shade group and detection options

Sensors are arranged to control shade groups. A shade group may consist of a single shade, multiple shades, or all the shades on a façade.

Single- and multiple-shade control

Single- and multiple-shade control provides more localized shade sensing than façade controls. This type of control is ideal for spaces where there is high potential for shadows and glare from neighboring buildings.

Single- and multiple-shade control requires either individual window sensors or mullion-mount sensor pairs for each single shade or group of multiple shades.

Façade control

Façade control provides synchronized control of multiple shades across an entire façade, for a clean aesthetic. This type of control requires only one window sensor or one mullion mount sensor pair for the entire façade.



Each color represents either a shade or a group of shades (groups of shades move in unison). This example uses mullion-mount pairs, although window mount sensors could also be used.

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