Radio Window™ sensor

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
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 rays from penetrating your work area

**Reflected Sun:** Shades close to block reflections from large surfaces

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

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

Shades lower to block direct sun

Shades close to block reflected glare

Shades lower to reduce sky contrast

Shades open to maximize view
The Radio Window™ 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

**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

Sensor options

1.6" (41 mm)

Depth: 0.7" (17 mm)
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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