

Photo Sensor

P/N 010-101043

Description

View Photo Sensors are directionally fixed roof-mounted photo sensors that transmit ambient light level data for each Dynamic Glass zone to the View Control System that processes the data to set optimal tint levels of the Dynamic Glass façade specific to each zone.

- Mast Sensor Four-Sensor assemblies are oriented to detect sunlight levels facing each true cardinal direction.
- Photo Sensor data provides one set of variables used to determine optimal tint levels.

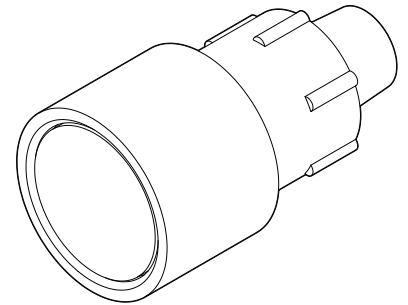
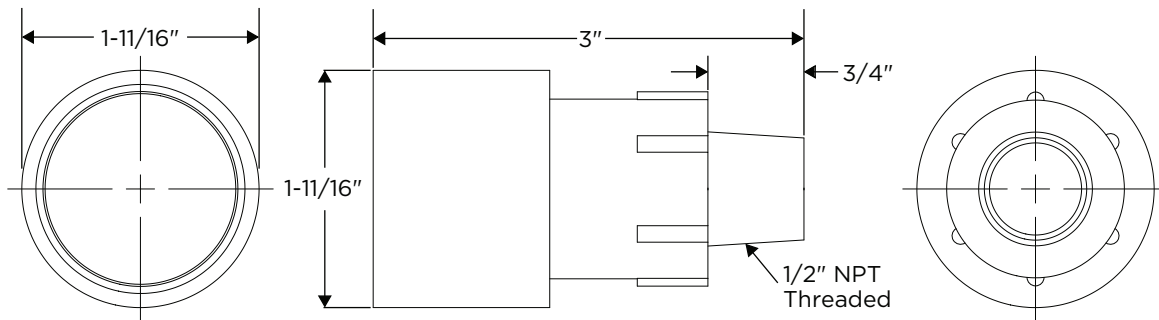


Photo Sensor



Technical Data

Input voltage	24 VDC	Repeatability	+/- 0.5%
Power consumption	24 mW	Linearity	2%
Low output	1 VDC	Temperature tolerance	+/- 10%
High output	10 VDC	Temperature	-40F to 140F (-40C to 60C)
Foot candle max	15,300 FC	Wiring	Red - Input voltage (+24 VDC)
Time response	Fixed 10 second full range		Yellow - Signal voltage
Tolerance	12%		Black - Return
Mount	1/2" NPT		22AWG, 6.5" length

Ordering Information

Product	Part Number
Photo Sensor	010-101043

Warranty

All Photo Sensors carry a 5 year warranty.

Project submittal information

JOB NAME:	NOTES:
JOB NUMBER:	

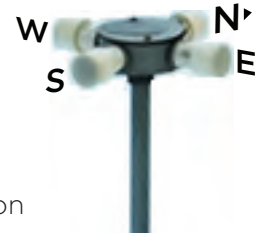
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Installation Guidelines

Default Installation – Mast Sensor Four-Sensor Assembly

Mast Sensor assembly consisting of four sensors installed horizontally at 90 degree angles on a four-sided junction box with an unobstructed 360° view of the horizon.



- One sensor must be oriented facing true north (determine local magnetic declination at: <http://www.ngdc.noaa.gov/geomag-web/#declination>).
- Obstructions around the photo sensors will affect the performance of the system. Each sensor must not have obstructions ± 90 degrees in the horizontal plane and -10 to +90 degrees in the vertical plane.
- Mast Sensor assemblies must be mounted at least 2 feet from mounting surface. Minimum height may need adjustment due to environmental factors such as above average snowfall accumulation.
- Sensors are mounted to a junction box with 1/2" NPT threaded connections. The three lead wires of each sensor are approximately 6 inches in length, and are terminated to a standard 3C 18AWG cable that ties into the View Control Box.

If there is no position on the roof available with an unobstructed 360° horizon view, or if Mast Sensor assemblies cannot be mounted on the roof due to architectural constraints, use Single-Sensor assemblies.

Alternative Installation – Single-Sensor Assembly

- Requirements for unobstructed sensor views as defined for Mast Sensor assemblies also apply to Single-Sensor assemblies.
- Single-Sensor assemblies must be mounted on the building side with the glass being controlled.
- Single-Sensor assemblies must be mounted as close to the edge of the building as possible.
- Sensor must be mounted horizontally.
- Sensor is mounted to a junction box with a 1/2" NPT threaded connection. The three lead wires of the sensor are approximately 6 inches in length, and are terminated to a standard 3C 18AWG cable that ties into the View Control Box.

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