

OVERVIEW

Classrooms are the ideal application for the **WV PDT 16** Dual Technology Wide View Sensor. Installed in the corner of the room along the entrance wall, this inconspicuous sensor provides line of sight PIR detection of small movements up to 40 ft (12.19 m) away, and combines overlapping Microphonics™ for detection around obstructions. Many classrooms are filled with shelving, projects, or lab benches. Total coverage of the room is always maintained no matter how cluttered the space becomes. The **WV PDT 16** is also used in corridors due to its ability to view up to 70 ft (21.34 m) for walking motions, or large open storage areas where obstructions may block the PIR's ability to view. For large lecture halls, multiple **WV PDT 16**s may be wired together, or along with any other low voltage sensors.

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- 120° by 40 ft (12.19 m) Coverage for Small Motion
- Patented Dual Technology with PIR / Microphonics Detection
- Adjustable Time Delay
- Push-Button Programmable
- Convenient Test Mode
- No Field Calibration or Sensitivity Adjustments Required
- 100 hr Lamp Burn-in Timer

SPECIFICATIONS

Size: 3.0" H x 3.6" W x 1.75" D (7.62 cm x 9.14 cm x 4.45 cm)

Weight: 5 oz

Mounting: Directly to corner or to ceiling using **WV BR** bracket

Color: White

Operating Voltage: 12-24 VAC/VDC

Current Draw: Standard, 4 mA
w/ **R** option, 16 mA

Rcmd Power Pack: **PP20**

ROHS Compliant, Title 24 Component

AcuityControls

Sensor Switch™

WV PDT 16
Wide View Sensor



Warranty

Five-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.



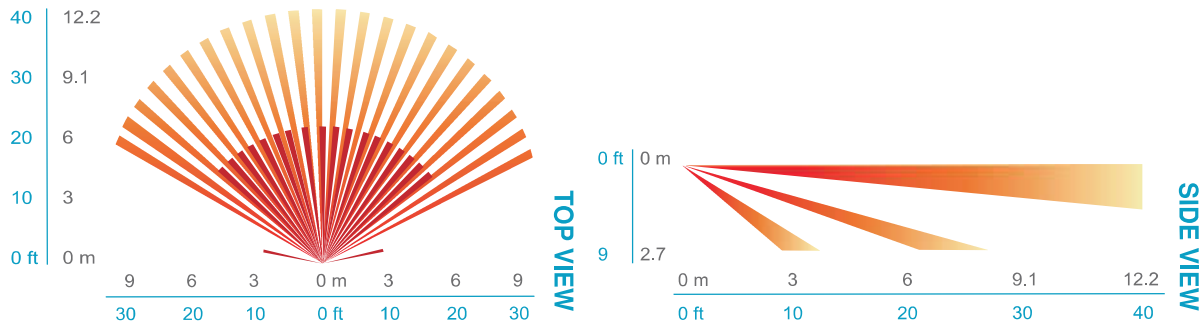
ORDERING INFORMATION

WV PDT 16				Example: WV PDT 16 R LT KIT
Series	Relay	Photocell	Temp / Humidity	Bracket Kit
WV PDT 16 Wide View Sensor	[blank] None R Low Voltage Relay	[blank] None P Photocell	[blank] Standard LT Low Temp	[blank] Sensor Only KIT Sensor & WV BR Bracket

COVERAGE PATTERN

16 WIDE VIEW LENS

- Small motion (e.g. hand movements) detection up to 40 ft (12.19 m).
- Large motion (e.g. walking) detection up to 70 ft (21.34 m).
- Designed for 8 to 10 ft (2.44 to 3.05 m) high mounting in room corner



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

RED - Power Input (12-24 VAC/VDC)

BLACK - Common

WHITE - Occupancy State (high VDC for occupied)

PHOTOCELL/DIMMING OPTIONS (P)

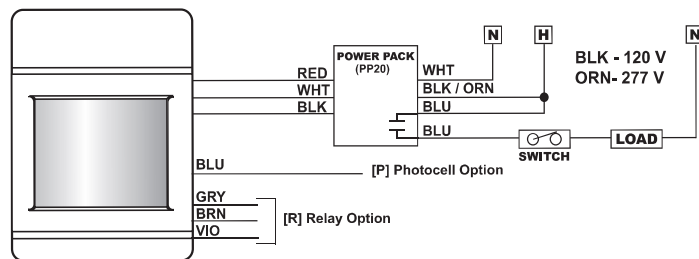
BLUE - Direct output to power pack for providing photocell control. Output is high VDC with occupancy & low light. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.

RELAY OPTION (R)

GRAY / BROWN - Connected during occupied state

VIOLET / BROWN - Connected during unoccupied state

Note: Relay is energized during unoccupied state



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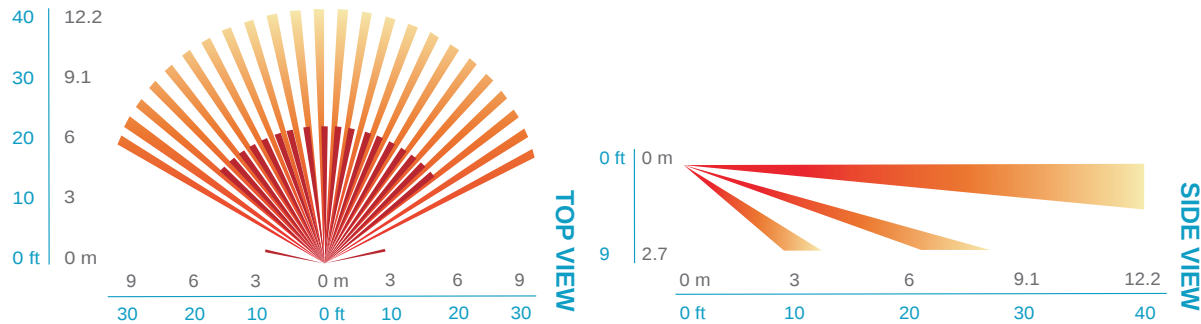
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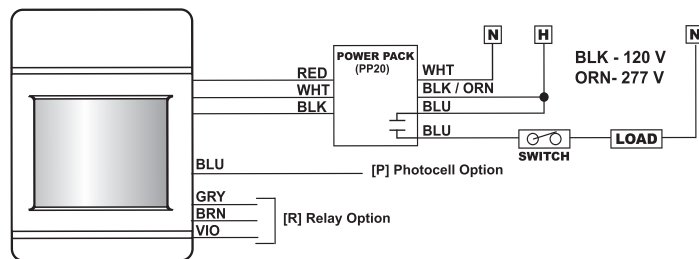
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Drawing Designation: Example User Interface Screenshots

Webster University - Interdisciplinary Science Building Lighting Controls

470 E. Lockwood Ave.
Webster Groves, MO 63119

As Prepared By:



Automatic Controls Equipment Systems, Inc.

11088 Gravois Industrial Court
St. Louis, MO, 63128
T: (314) 722-2727 F: (314) 722-2728

PROJECT TEAM

Client Name:	Webster University
Owner:	Webster University
Architect:	N/A
MEP Engineer:	N/A
Consulting Engineer:	N/A
Construction Manager:	N/A
General Contractor:	N/A
Mechanical Contractor:	N/A
ALC Design Engineer:	Paul Lane
ALC Project Manager:	Mike Manzelli
Project Number:	WU-02-16
Drawing Date:	7/28/2016

St. Louis, MO, 63128

T: (314) 722-2727 F: (314) 722-2728

Project Name: Webster University - Interdisciplinary Science Building Lighting Controls

Project Number: WU-02-16

Drawing Designation: Submittal

Drawing Date: 7/28/2016

<u>Page</u>	<u>Manufacturer</u>	<u>Part Number</u>	<u>Part Description</u>
2	Acuity Controls	CM-PDT-9-R	Ceiling Mount Occupancy Sensor, Dual Technology (PIR/Microphonics), Small Motion 360°, Low Voltage
5	Acuity Controls	WV-16-R	Wide View Occupancy Sensor, PIR, w/ Low Voltage Relay
7	Acuity Controls	WV-PDT-16-R	Dual Technology Wide View Occupancy Sensor w/ Low Voltage Relay
9	Automated Logic	AMR	ARCnet to MS/TP Router
11	Blue Ridge Technologies	CTS1CH-WH	Capacitive Touch Station, 1 Channel, White (wallplate not included)
11	Blue Ridge Technologies	CTS1RL-WH	Capacitive Touch Station, 1 Raise/Lower, White (wallplate not included)
11	Blue Ridge Technologies	CTS3PR-WH	Capacitive Touch Station, 3 Preset, White (wallplate not included)
11	Blue Ridge Technologies	CTS2RL-WH	Capacitive Touch Station, 2 Raise/Lower, White (wallplate not included)
13	Blue Ridge Technologies	LS24O	Light Level Sensor, 10VDC, Indoor, 0-50FC, Recessed Ceiling Mount
15	Blue Ridge Technologies	RPDS08-08-0-XO-10	Relay Panel Dimming Standard, 8 Relay Capacity
15	Blue Ridge Technologies	RPDS08-08-0-00-10	Relay Panel Dimming Standard, 8 Relay Capacity
17	Blue Ridge Technologies	RPDS16-16-4-X1-20	Relay Panel Dimming Standard, 16 Relay Capacity
19	Blue Ridge Technologies	SCDS-X1	Satellite, Dimming Standard, UL924, 120/277
21	Blue Ridge Technologies	SCDS-00	Satellite, Dimming Standard, 120/277
21	Blue Ridge Technologies	SCSS-00	Satellite, Switching Standard, 120/277
23	Blue Ridge Technologies	ZCDS-X1-00	Zone Controller, Dimming Standard, UL924, 120/277
25	Blue Ridge Technologies	ZCDS-00-00	Zone Controller, Dimming Standard, 120/277
27	IR-Tec	BPD-500-SR-L	IR-TEC Light Level Sensor, 10VDC Linear Photodiode, Indoor, 0-50FC, Recessed Ceiling Mount

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: August 9, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mark de la Fuente

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	265700E01A	(Submittal No.'s) (R&B CxSRC)
		(Cannon #2605700-002 REV001) – (Paric #15051-) – (WES #607)
		• Lighting Controls Product Data REV1

***Remarks: Please see PAGE 2 for remarks.**

c: Kelvin Patel
Kpatel@cannondesign.com

☐ Furnish as Submitted

☒ ***Furnish as Noted**

☐ Rejected

☐ Revise & Resubmit

☐ Not Reviewed

☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

Shop Drawing Submittal Review

***Submittal Review Comments**

1. Configure lighting control system to energize emergency lights upon loss of normal power.
2. Per E0601, contractor shall coordinate a meeting between design team, owner, and lighting control system start up technician, to review sequence of operations. The intent of this meeting is to identify any programming open items that need to be resolved. And to answer any questions the technician might have regarding design intent.
3. Provide two extra "1RL" wall stations (one on stage and one in control 160B) to serve stage lighting in combination with "2RL" stations, as intended with "3RL" station callout shown on plans.
4. Level 01: Materials list calls for 2 light level sensors, but it is unclear where these are intended to go.
5. Area 2B: Missing light level sensor in Comp Lab 231.
6. Area 3B: Missing Office 311 and Commons 339.
7. Area 4B: Missing "4i" fixtures in main stairwell. Configure these fixtures to operate with "1m" fixtures in main stairwell.
8. Sequence of operations: Coordinate dim-warn settings with engineer.

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
CC: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>
Date: 8/2/2016 11:02 AM
Subject: Webster ISB - 26 5700-002 ~~REV002~~ **REV001**
Attachments: 265700-002 Lighting Controls Product Data REV1.pdf

Attached for review.

Melissa Pirtle
Construction Admin
[cid:image001.png@01D1ECAD.889AF8D0]
1100 Clark Ave
St. Louis, Missouri 63102
T 314.425.8797 * M
cannondesign.com



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0163

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/01/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Lighting Controls Product Data REV1

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☐ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		265700-002	2		08/01/2016	Lighting Controls Product Data REV1	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

Transmittal

To Paric Corporation

Date 7/29/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-012

We are sending you:

☒ Attached

☐ Under separate cover, the following:

☐ Preliminary Drawings

☐ Samples

☐ Construction Drawings

☐ Copy of Letter

☐ Specifications

☐ Other _____

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Lighting Controls (Hardware &
			Wiring Diagram) - Spec Section 26 57 00

These are transmitted as checked:

☒ For Your Review & Comment

☐ Approved As Noted

☒ For Approval

☐ Returned For Corrections

☐ For Your File

☐ Approved As Submitted

☐ As Requested

☐

Copy:

Transmittal

Enclosure

Rick Branstetter

Signed: Rick Branstetter, Project Manager