

## PROGRAMMING INSTRUCTIONS

Please read all 7 steps before programming

1. Enter programming mode by pressing & holding programming button until LED flashes rapidly. Release button.
2. Enter a specific programming function by pressing button the number of times as the desired function number from the tables to the right (e.g., press twice for function 2, time delay).
3. LED will flash back the selected function's current setting (e.g., 5 flashes for 10 minute time delay). To change setting, proceed to step 4 before flash back sequence repeats 10 times. To exit the current function or to change to a different function, wait for sequence to repeat 10 times then return to step 1.
4. Press button the number of times indicated in the particular function's detailed table for the NEW desired setting (e.g., press 3 times for 5 min). As confirmation of setting change, LED flashes back the NEW setting 10 times before exiting.
5. Exit programming mode by pressing and holding button again until LED flashes rapidly. Release button.
6. Re-enter function number as final confirmation that its setting changed.
7. LED will flash twice indicating acceptance of NEW settings. If two flashes are not seen, repeat 7 step process.

## SHORTCUT PROGRAMMING METHOD

For all functions except 1 (Pole Selection) and 9 (Restore Factory Defaults), a shorter programming method that requires following only steps 2, 3, and 4 can be used.

Note: The LED flash back sequence used for programming readout and confirmation repeats only 3 times when the shortcut method is used.

## DETAILED FUNCTION TABLES

### 1 = Pole Selection<sup>6</sup>

1	1st Pole*	2	2nd Pole**
3	Both Poles 1 & 2 (also copies Pole 1 to Pole 2)**		
4	Disable Button Mode	5	Enable Button Mode

### 2 = Occupancy Time Delay

1	30 sec	4	7.5 min	7	15.0 min
2	2.5 min	5	10.0 min*	8	17.5 min
3	5.0 min	6	12.5 min	9	20.0 min

### 4 = Test Mode / 100 hr Burn-In / Auto Set-Point

1	Normal*	4	Run Auto Set-Point <sup>1,2</sup>
2	Run 100 hr Burn-In	5	Blink back Set-Point <sup>3</sup>
3	Run 100 hr then Auto-Setpoint <sup>1,2</sup>	6	Test Mode <sup>1,4</sup>

### 5 = Ten's Digit of Set-Point<sup>2</sup>

1	10 fc	4	40 fc	7	200 fc	10	0 fc*
2	20 fc	5	50 fc	8	Disable		
3	30 fc	6	100 fc	9	Not applicable		

### 6 = One's Digit of Set-Point<sup>2</sup>

1	1 fc	4	4 fc	7	7 fc	10	0 fc
2	2 fc	5	5 fc*	8	8 fc		
3	3 fc	6	6 fc	9	9 fc		

### 7 = Sunlight Discount Factor<sup>1,2</sup>

1	x/1	4	x/4*	7	x/7	10	x/10
2	x/2	5	x/5	8	x/8		
3	x/3	6	x/6	9	x/9		

### 8 = Incremental Set-Point Adjustment<sup>2</sup>

1	Decrease 1 fc	2	Increase 1 fc
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### 9 = Restore Factory Defaults

1	Keep Current*	2	Restore Factory Defaults
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### 10 = Minimum On Time<sup>1</sup>

1	0 min***	3	30 min	5	60 min
2	15 min*	4	45 min		

### 12 = Dual Technology (Microphonics™)<sup>5</sup>

1	Normal*	2	Off	3	Medium	4	Low
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\* Indicates default setting

\*\* Indicates additional settings for 2-pole sensors

\*\*\* Special Default for LWS(H) sensors

## NOTES

<sup>1</sup> Programming function will effect both poles regardless of which Pole is currently selected

<sup>2</sup> Programming function only present on products with Photocell option (model numbers with suffix P)

<sup>3</sup> The LED will blink back the ten's digit, then pause, then blink back the one's digit. For a "0" the LED will blink very rapidly. The sequence is repeated 3 times.

<sup>4</sup> Test Mode will disable Minimum On Time, set Occupancy Time Delays to 30 sec, and shorten all photocell transitions rates. Mode will expire after 10 min or if function 4 is set back to Normal.

<sup>5</sup> Programming function only available with products with Dual Technology (model numbers containing PDT)

<sup>6</sup> Settings 1-3 related to Pole Selection not available with HM(R) products

## FUNCTION DEFINITIONS

### 1 POLE SELECTION

#### POLE 1 / POLE 2 / BOTH POLES

The particular relay that subsequent programming will effect

#### BUTTON MODE

When enabled, allows user to switch the relay by pressing the push-button for test purposes (e.g., in order to test wiring). The particular relay(s) to be switched is determined by the previous pole selection.

### 2 OCCUPANCY TIME DELAY

The length of time an occupancy sensor will keep the lights on after it last detects occupancy (assuming minimum on time has been met)

### 4 TEST MODE / 100 HOUR BURN-IN / AUTO SET-POINT

#### TEST MODE

Disables Minimum On Time, sets Occupancy Time Delay to 30 sec, and shortens all photocell transition rates. Mode will expire after 10 min or if function 4 is set back to Normal.

#### 100 HOUR BURN-IN

Overrides relay on (typically for lamp seasoning) for 100 hrs of powered operation. LED blinks rapidly during burn-in period.

#### AUTO SET-POINT

Photocell calibration procedure for detecting optimum lighting control level. When engaged, LED will blink rapidly then lights will cycle up to three times as sensor measures amount of light it is controlling.

### 5 TEN'S DIGIT OF SET-POINT

The ten's digit of the target light level that is to be maintained by the device (in foot-candles)

### 6 ONE'S DIGIT OF SET-POINT

The one's digit of the target light level that is to be maintained by the device (in foot-candles)

### 7 SUNLIGHT DISCOUNT FACTOR

Value used to improve the tracking accuracy of a photocell during periods of high daylight. Decreasing the value will lower the controlled level of the lights

### 8 INCREMENTAL SET-POINT ADJUSTMENT

Alters the target light level that is to be maintained by the device (in foot-candles)

### 9 RESTORE FACTORY DEFAULTS

Returns the sensor to its default settings

### 10 MINIMUM ON TIME

The length of time required for lamps to be on in order to prevent all short cycling that shortens lamp life. If occupancy time delay expires prior to Minimum On time being satisfied, the lamps will remain on until time has been met.

### 12 DUAL TECHNOLOGY (MICROPHONICS™)

A second method of occupancy detection that allows the sensor to hear occupants

#### NOTE:

For information on additional advanced settings, including resetting unit to factory defaults, contact:

**Technical Support: 1.800.535.2465**

## LWS(H) / WVR / HM(R) SERIES OCCUPANCY SENSOR PROGRAMMING INSTRUCTIONS

AcuityControls.

Sensor Switch™

**1.800.535.2465**