

## PROGRAMMING INSTRUCTIONS

Please read all 3 steps before programming

1. Enter a programming function by pressing button the number of times as the desired function number from the tables on right (e.g., press twice for function 2, motion time delay).
2. LED will flash back the selected function's current setting (e.g., 3 flashes for 5 minute time delay). To change setting, proceed to step 3 before flash back sequence repeats 3 times. To exit the current function or to change to a different function, wait for sequence to repeat 3 times then return to step 1.
3. Press button the number of times indicated in the particular function's detailed table for the NEW desired setting (e.g., press 5 times for 10 min). As confirmation of setting change, LED flashes back the NEW setting 3 times before exiting.

## PROGRAMMING FUNCTIONS

- 2 Motion Time Delay
- 4 Test & Blink-Back Mode
- 5 Ten's Digit of Set-Point
- 6 One's Digit of Set-Point
- 7 Sunlight Discount Factor
- 8 Incremental Set-Point Adjustment
- 9 Restore Factory Defaults
- 11 Photocell Operation
- 12 Ramp Up Rate
- 13 Fade Down Rate
- 15 Maximum Level (High Trim)
- 16 Minimum Level (Low Trim)
- 21 Photocell Transition Off Time
- 22 Photocell Transition On Time

## DETAILED FUNCTION TABLES

### 2 = Motion 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 & Blink-Back Mode

1	Blink Light & LED*	5	Blink Set-Point <sup>1</sup>
2	Blink LED only	6	Test Mode <sup>2</sup>
4	Auto-Setpoint		

<sup>1</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>2</sup> Test Mode will set Occupancy Time Delay to 30 sec, and shorten all photocell transitions and dimming rates. Mode will expire after 10 min or if function 4 is set back to previous setting.

### 5 = Ten's Digit of Set-Point

1	10 fc	4	40 fc	7	200 fc
2	20 fc	5	50 fc	10	0 fc*
3	30 fc	6	100 fc		

### 6 = One's Digit of Set-Point

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

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

1	Decrease 1 fc	2	Increase 1 fc
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\* DEFAULT SETTING

### 9 = Restore Factory Defaults

1	Keep Current*	2	Restore Factory Defaults
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### 11 = Photocell Operation

1	High/Off*	2	High/Low	3	Disabled
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### 12 = Ramp Up Rate

1	Instant	4	3 sec*	7	15 sec	10	1 min
2	1 sec	5	5 sec	8	20 sec		
3	2 sec	6	10 sec	9	30 sec		

### 13 = Fade Down Rate

1	Instant	4	5 min*	7	15 min	10	1 hr
2	30 sec	5	7.5 min	8	20 min		
3	2.5 min	6	10 min	9	30 min		

### 15 = Maximum Level (High Trim)

1	Off	4	3 Volts	7	6 Volts	10	9 Volts
2	1 Volt	5	4 Volts	8	7 Volts	11	10 Volts*
3	2 Volts	6	5 Volts	9	8 Volts		

### 16 = Minimum Level (Low Trim)<sup>3</sup>

1	Off	4	3 Volts	7	6 Volts	10	9 Volts
2	1 Volt	5	4 Volts	8	7 Volts	11	10 Volts
3	2 Volts	6	5 Volts	9	8 Volts		

<sup>3</sup> Default Setting is determined by last digits in unit model number eg. SBOR 10 WH ODP 3V = 3 Volts

### 21 = Photocell Transition Off Time

1	45 sec	3	5 min*	5	15 min	7	25 min
2	2 min	4	10 min	6	20 min		

### 22 = Photocell Transition On Time

1	45 sec*	3	5 min	5	15 min	7	25 min
2	2 min	4	10 min	6	20 min		

\* DEFAULT SETTING

## FUNCTION DEFINITIONS

### 2 MOTION TIME DELAY

The length of time the motion sensor will keep the lights on and at maximum level after it last detects motion

### 4 TEST & BLINK-BACK MODE

#### AUTO SET-POINT

Photocell calibration procedure for detecting optimum lighting control level

#### BLINK-BACK MODE

The type of visual feedback that is provided when programming via the push-button; i.e. entire fixture will blink or just sensor LED will blink.

#### TEST MODE

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

### 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

### 11 PHOTOCELL CONTROL

Indicates what mode of photocell operation, if any, is enabled

### 12 RAMP UP RATE

Time period from when motion is detected to when lights are at high trim level

### 13 FADE DOWN RATE

Time period from when motion time delay expires to when lights are at low trim level

### 15 MAXIMUM LEVEL (HIGH TRIM)

The output level (0-10 VDC) of the sensor after motion is detected

### 16 MINIMUM LEVEL (LOW TRIM)

The output level (0-10 VDC) of the sensor after the fade down time has elapsed

### 21 PHOTOCELL TRANSITION OFF TIME

The time period after the photocell measures a light level above the set-point (plus the deadband) that it will turn lights off (or dim them to min level)

### 22 PHOTOCELL TRANSITION ON TIME

The time period after the photocell measures a light level below the set-point that it will turn lights on

## PROGRAMMING INSTRUCTIONS for

## OUTDOOR “ODP” MOTION SENSORS

Model Series include:

SBOR xx ODP

SBGR xx ODP

SBO xx ODP

SBG xx ODP

SFOD xx ODP

MSOD xx ODP

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