

PHOTOCELL CONFIGURATION

Along with occupancy based control, units with an integrated photocell can provide on/off or inhibit-only control of lighting based on the amount of ambient light present.

ON/OFF PHOTOCELL CONTROL

- Recommended for public spaces (hallways, entryways, etc) where fully switching of lighting off and on will not cause distraction of occupants.
- Lights are switched off if ambient level surpasses threshold & back on if level drops.

FUNCTION #3 - PHOTOCELL OPERATIONAL MODE

To enable/disable the operation of the photocell, use the following procedure:

CHANGING THE PHOTOCELL OPERATIONAL MODE:

1. Press and release the unit's pushbutton 3 times, then wait 2 seconds. The white LED will blink back the number of the current setting (repeats 3 times before exiting).
2. At any time after blink back starts, enter number of new setting from table on right (e.g., 4 for Occupancy + Initial Inhibit Photocell).
3. New setting is saved after white LED blinks back new number 3 times. If blue LED double flashes at any time, new setting was not saved and process must be repeated.

PHOTOCELL OPERATION NOTES

During periods of occupancy, sensors with an integrated photocell (models SWX-41x-1, SWX-43x-1) will signal power packs connected to its blue wire output to turn lighting off when the measured light level is high enough for 5 min. such that turning the lights off will not drop the level below the selected setpoint. During this 5 min. transition time the LED will blink blue at 0.5 second intervals. After lights are turned off, the sensor's LED double blinks blue every 15 seconds as an indication that sufficient ambient light is the reason the lights are being held off. If the ambient light level falls below the setpoint for more than 30 seconds, lights will switch back on. During this transition time the LED also will blink blue at 0.5 second intervals.

FUNCTION #4 - PHOTOCELL SETPOINT

The minimum overall light level that is to be maintained in a space by the sensor is referred to as the "setpoint". This value is user selectable or can be chosen by the Auto-Setpoint function that is built into the sensor.

SETPOINT CONFIGURATION

1. Read through the below setpoint values list and note the number of the desired setpoint (e.g., default is 7 = 25 fc).
2. Press and release the unit's pushbutton 4 times, then wait 2 seconds. The white LED will blink back the number of the current setting in two alternating digits:
Blue LED = 10's digit (1-12 blinks or rapid blink for 0)
White LED = 1's digit (1-9 blinks or rapid blink for 0)
3. At any time after blinking starts, enter number of new setting (see table below).
4. New setting is saved after white LED blinks new setting back 3 times. If blue LED double flashes at any time, an error condition exists and process must be repeated.

FUNCTION #4 - SETPOINT VALUE TABLE

SETTING #	DESCRIPTION
2	Run Auto-Setpoint*
3	2.5 fc
4	5.0 fc
5	10.0 fc
6	15.0 fc
7	25 fc (default)
8	35 fc
9	50 fc
10	75 fc
11	100 fc

} **Manual Setpoint Options**

INITIAL INHIBIT ONLY PHOTOCELL CONTROL

- Lighting is held off if sufficient ambient light level is present upon initial occupancy.
- Lighting will turn on if light level drops below setpoint.
- Lighting will only turn off from vacancy or a manual switch, never from daylight.

FUNCTION #3 - PHOTOCELL OPERATIONAL MODES

SETTING #	DESCRIPTION	MODEL # NOTES
2	Occupancy + On/Off Photocell Control (Photocell Enabled)	Default for SWX-41x-1 & SWX-43x-1
3	Unused	
4	Occupancy + Initial Inhibit Photocell Control (Photocell Enabled)	
5	Occupancy only (Photocell Disabled)	Default for SWX-40x-1 & SWX-42x-1

*AUTO-SETPOINT SELECTION DETAILS

- Once setting 2 "Run Auto-Setpoint" has been selected (by following above steps 1-4), the sensor's LED will alternate blue and white for 30 seconds. During this time user should move away from sensor.
- Lights will then be cycled in order for sensor to calculate the controlled (artificial) light level. This is done by subtracting the light level with the lights off (relay open) from the light level with the lights on (relay closed).
- A setpoint will then be chosen using the following conditions:
 - If controlled level is less than 3 fc, the application is considered open loop and the setpoint will be set to 25 fc.
 - If controlled level is between 3 and 100 fc, setpoint will be set to that level times 1.25.
 - If controlled level is greater than 100 fc the setpoint will be set to 125 fc.
- Unit will immediately start operating with new setpoint (i.e. blue LED may begin flashing indicating it will transition lights soon)
- To check auto selected setpoint, press and release button 4 times. Setpoint will be blinked back in two alternating digits:
Blue LED = 10's digit (1-9 blinks or rapid blink for 0)
White LED = 1's digit (1-9 blinks or rapid blink for 0)