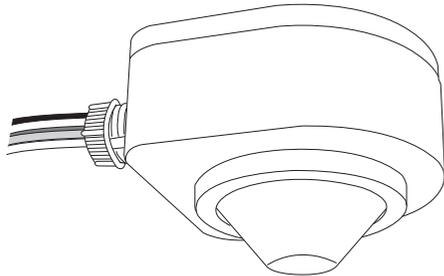




SEN-3C-KO

Line Voltage Continuous Dimming Occupancy Sensor

INSTALLATION INSTRUCTIONS



*More lens options are available for this sensor. Please refer to the Lens Datasheet for more details.

⚠ WARNING & CAUTION

- Risk of Electric Shock - Disconnect power supply before servicing.
- Do NOT touch the square window of infrared sensor under the lens assembly.
- Open Type Photoelectric Switches.

⚠ AVERTISSEMENT & PRUDENCE

- Risque de choc électrique - Débranchez l'alimentation avant l'entretien.
- Ne PAS toucher la fenêtre carrée de capteur infrarouge sous l'ensemble de l'objectif.
- Ouvrir Type commutateurs optoélectroniques.

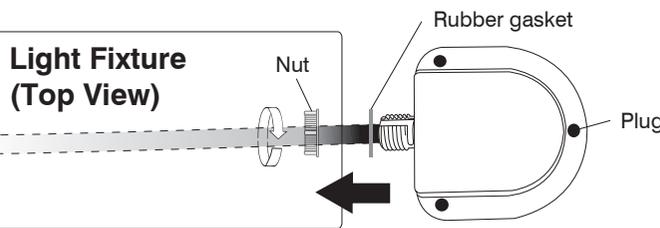
OVERVIEW

The SEN-3C-KO is a two-way IR remote programmable line voltage occupancy sensor with 0-10V output for 347/480VAC dimmable ballast or LED driver control. The sensor is capable of providing top-notch energy efficient lighting control in various modes with fully programmable multi-level high/low dim or continuous dimming control. It features a state-of-the-art automatic dimming control technology, which is capable of maintaining the overall ambient light level within the preset range through a smooth, flawless continuous dimming control to the connected lighting.

The sensor will turn on the connected lighting to the high dim or continuous dimming level as programmed when it detects the presence of an occupant or vehicle, and automatically dim the light down to the low level or shut off as programmed after the area is vacated for a period of time. An exclusive two-way handheld remote programmer allows you to configure sensor setting, or download the existing settings of the installed sensor from the floor.

The SEN-3C-KO is also available with interchangeable lenses. The sensor can be externally mounted with a lighting fixture via a 1/2" knockout hole, and operate in the coldest of environments, down to -40°F/°C.

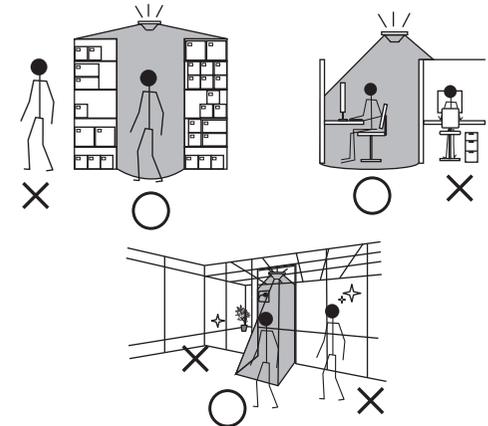
SENSOR MOUNTING



Note: For IP-66 fixture integration, ensure the rubber gasket is placed in between the fixture enclosure and sensor unit.

APPLICATION NOTES

1. The sensor is more sensitive to the movements “crossing” the detection zones than “toward” or “away” the sensor unit. To obtain better sensitivity, avoid placing the sensor in line with occupant path, if possible.
2. The closer the movement is to the sensor, the more sensitive the sensor is. The higher the sensor is installed, the larger movement is required to be detected.
3. Ensure to place the sensor at least at 1.5m (5 ft.) away from air supply ducts as rapid air flow may cause false activations.
4. The sensor cannot “see” the movements behind obstacles, such as furniture, shelf, glass or partition. As a general rule, each occupant should be able to clearly view the sensor unit.
5. For open office areas with partition which could block the sensor view to occupant movements, it is best to place the sensors over the intersection of multiple workstations. For large areas of open office or space, place multiple sensors so that there is overlap coverage with each adjacent sensor.



CONTROL MODE

The SEN-3C-KO can be programmed by a remote programmer to control the lighting in one of the following modes.

ON/OFF : ON-OFF Switching

OSO : Occupancy Sensing Only

OSLA : Occupancy Sensing at Low Ambient

OSLATO : Occupancy Sensing at Low Ambient with Time-Off

Mode	Control (SEN-3C-KO)
ON/OFF	<ol style="list-style-type: none"> While ambient lux is higher than the level set, light stays OFF. While ambient lux is lower than the level set, and occupancy detected, switch the light ON. Turn OFF the light after occupant leave and delay time elapses.
OSO	<ol style="list-style-type: none"> Ambient light sensor disabled. Dim the light to LOW DIM at all time under vacancy. Switch the light to HIGH DIM under occupancy. Dim the light to LOW DIM after occupant leave and delay time elapses.
OSLA	<ol style="list-style-type: none"> While ambient lux is higher than the level set, light stays OFF. While ambient lux is lower than the level set, dim the light to LOW DIM under vacancy. While ambient lux is lower than the level set, and occupancy detected, switch the light to HIGH DIM Dim the light to LOW DIM after occupant leave and delay time elapses.
OSLATO	<ol style="list-style-type: none"> While ambient lux is higher than the level set, light stays OFF. While ambient lux is lower than the level set, and occupancy detected, switch the light to HIGH DIM. Dim the light to LOW DIM after occupant leave and delay time elapses. Turn OFF the lights when TIME OFF delay elapses. When occupancy detected during TIME OFF, switch the light to HIGH DIM.

SENSOR ACKNOWLEDGMENT

Acknowledgement	Sensor LED	Beep	Lighting
Full sensor setting upload completed	-	Long x 1 Short x 2	Flash x 2
Sensor resume to factory default	-	-	Flash x 2
Continuous dim level set completed	-	Short x 2	Flash x 2
Single setting ok	-	Short x 2	-
Occupancy detected	Flash x 1	-	-

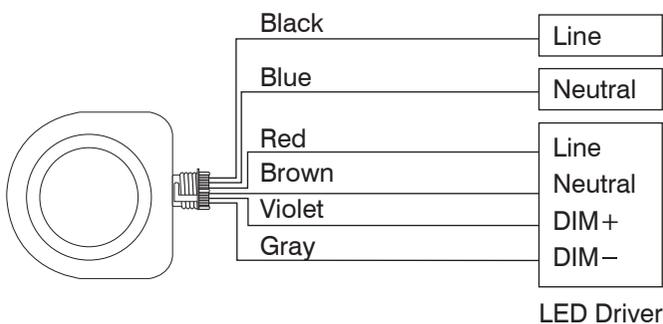
SENSOR SETTINGS

The followings are settings and options available with SEN-3C-KO that can be configured through the operation of a remote programmer. For more details of remote sensor setting, please refer to the operation instruction of the remote control.

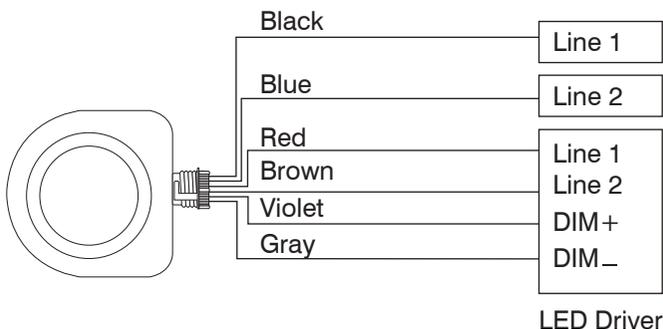
Settings	Description	Options (*Denotes factory default.)																		
CONTROL	The mode that the sensor will control.	ON/OFF, OSO, OSLA, OSLATO*																		
AMBIENT LUX	The ambient light level that sensor will perform the control.	<table border="1"> <thead> <tr> <th>Setting</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>DISABLE*</th> </tr> </thead> <tbody> <tr> <td>LUX</td> <td>10</td> <td>20</td> <td>40</td> <td>60</td> <td>80</td> <td>200</td> <td>400</td> <td>24H</td> </tr> </tbody> </table>	Setting	1	2	3	4	5	6	7	DISABLE*	LUX	10	20	40	60	80	200	400	24H
Setting	1	2	3	4	5	6	7	DISABLE*												
LUX	10	20	40	60	80	200	400	24H												
OFF DELAY	The delay time that sensor is set to turn off or dim the light after the area is vacant.	1/3/5/ 10* /15/20/30/60 min.																		
TIME OFF	The delay time that sensor will keep the light at low dim level after the OFF delay time elapsed.	3/5/ 10* /15/20/30/45/60 min.																		
HIGH DIM	The output level set to control the light during occupancy.	50/55/60/65/70/80/90/100%/ continuous																		
LOW DIM	The output level set to control the light when the space is vacant.	0/5/10/15/20/25/ 30* /40%																		
RAMP UP	The speed of increasing the lighting output to HIGH DIM level.	INSTANT* /SOFT/SLOW																		
FADE DOWN	The speed of decreasing the lighting output to LOW DIM level or off.	INSTANT/SOFT*/SLOW																		
SENSITIVITY	The sensitivity of occupancy sensor.	HIGH* /NORMAL/LOW																		

Wiring Diagram

A. Single Phase Line Power (347 VAC)



B. 2-Phase Line Power (480 VAC)



SPECIFICATIONS

Power voltage	347/480 VAC, 60Hz	
Maximum Load	347 VAC	480 VAC
-Fluorescent Ballast	1500 W(VA)	2160 W(VA)
-Ballast Electronic (LED)	1500 VA	2160 VA
Infrared sensor	Omni-directional quad element pyroelectric	
Photo sensor	Digital ambient light sensor	
Load switching	Zero-cross control relay	
Dim control output	0-10V, max 25 mA sinking current	
Detectable speed	0.5~10 ft./sec. (0.15 ~ 3 m/sec.)	
Mounting height	Subject to the lens type applied.	
Detection range	Subject to the lens applied and height	
Remote range	33 ft (10 m) indoor	
Op. humidity	Max. 95% RH	
Op. temperature	-40°F~122°F (-40°C~50°C)	
Dimensions	H4.37" x W3.54" x D1.8" (H111 x W90 x D46mm)	

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