

## SEN-3A-KO

PIR OCCUPANCY/DAYLIGHT SENSOR



### OVERVIEW

The SEN-3A-KO is a line voltage switching occupancy sensor designed for all-purposes energy efficient lighting control.

This occupancy sensor employs a cutting edge quad element pyroelectric infrared sensor to provide omni-directional sensing capability of occupant's presence and movements. The digital potentiometer makes the sensor setting easier, faster and more accurate than the conventional analog potentiometer. An exclusive hybrid switching technology makes the SEN-3A-KO ideal to control the lighting with exceptionally high inrush current (HIC) while switching on, such as multiple LED or CFL lightings connected in parallel.

The SEN-3A-KO series is available with various mounting options and interchangeable lenses. This provides a second-to-none design and complete installation flexibility. The sensor is designed to operate in the coldest of environments, down to -40°F/°C.

The SEN-3A-KO comes with a daylight sensor to inhibit the lighting if ambient light levels are higher than required. The SEN-3A-KO is designed to provide complete occupancy sensing for automatic lighting control, ease of use, and the simplest installation possible.

### FEATURES

- Omni-directional quad element infrared sensor
- 120/277VAC multiple line voltage operation
- Hybrid switching for controlling loads with HIC
- Potentiometer for quick and easy setting
- Walk test and sensor operation LED indicator
- Direct lead wires for easy wiring connection
- Available with a variety of mounting options
- Available with interchangeable lens options
- 7 Year Limited Warranty; see [eiko.com](http://eiko.com) for warranty details

### APPLICATION

The SEN-3A-KO occupancy sensor can be used to directly control the connected light, or other loads, by sensing the presence and movements of the occupant. Various control modes can be achieved by different wiring connections. Basic wiring diagrams are included. Consult with an EiKO team member if a more complex wiring diagram is required.

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## LENS OPTIONS

The SEN-3A-KO is available with following lens options which provide different coverage at different mounting height (H). When adding the lens code the lens is then automatically shipped with the sensor.

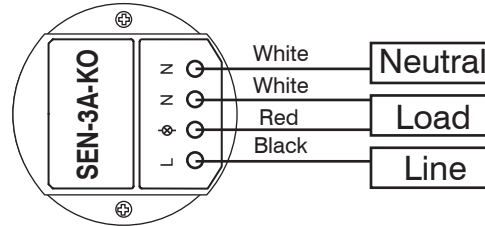
	Lens	Shape	Mounting Height	Coverage	
SEN-3-Lens-HBS	High bay	Cone	15 ~ 30 ft.	4.5 ~ 9.0m	3X height
SEN-3-Lens-HBH	High bay	Dome	30 ~ 50 ft.	9.0 ~ 15.0 m	4X height
SEN-3-Lens-Aisle	Aisle way	Arch	8 ~ 40 ft.	2.4 ~ 12.0m	3X height
SEN-3-Lens-EW4X	Extra wide	Dome	8 ~ 20 ft.	2.4 ~ 6.0m	4X height

## SPECIFICATIONS

Power supply	120/277VAC, 50/60Hz
Maximum load (@ -40°F ~ 131°F (-40°C ~ 55°C))	Incandescent/Halogen - 800/1200W(VA)@120/277V
	Fluorescent Ballast/CFL - 800/1200W(VA)@120/277V
	Ballast Electronic (LED) - 540/1200VA@120/277V
Maximum load (@ 131°F ~ 158°F (55°C ~ 70°C))	Incandescent/Halogen - 500/750W(VA)@120/277V
	Fluorescent Ballast/CFL - 500/750W(VA)@120/277V
	Ballast Electronic (LED) - 500/750VA@120/277V
Infrared sensor	Omni-directional quad element pyroelectric
Load switching	Zero-cross Hybrid-Switching
HIC protection	Max. 80A for 16.7msec.
Detectable speed	1~10 ft./sec. (0.3~3 m/sec)
Mounting height	Subject to the lens type applied
Detection range	Subject to the lens applied and height
Ambient light level	7 levels digital potentiometer
Delay time setting	10"/1/3/5/10/20/30' selectable
Op. humidity	Max. 95% RH
Op. temperature	-40°F~158°F (-40°C~70°C)
Dimensions	Ø2.36"x H1.45"(Ø60 x H37mm)

## WIRING DIAGRAM

A. Single sensor control



B. Multiple sensor control

