

POA-900 series

Under Cabinet Occupancy Sensor



OVERVIEW

The POA-900 series is a low voltage occupancy sensor with 0-10V output designed for LED lighting control. The sensor employs a cutting edge pyroelectric infrared sensor and a compact dome lens to provide excellent occupancy sensing capability. Four different control modes and light-off delays are available for selection via DIP switch setting. Low dim level can be easily adjusted to a desired level.

Thanks to its low profile design, the POA-900 sensor can be easily mounted under a cabinet or shelf to provide energy efficient, occupancy sensing based, on/off switching or bi-level dimming LED lighting control.

APPLICATIONS

- ☒ Under-cabinet lighting
- ☒ Under-shelf lighting (cubicle)
- ☒ Refrigerator cabinet

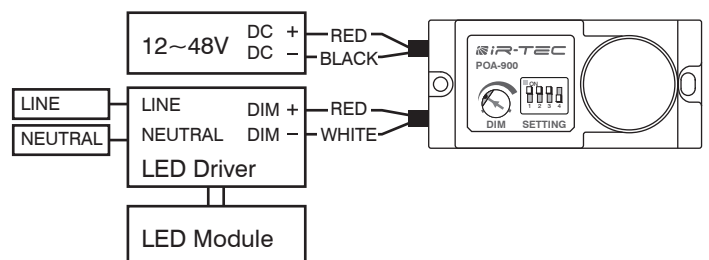
FEATURES

- Excellent occupancy sensing capability
- 2X height with 360° look down coverage
- Smart day & night ambient light sensing
- 4 control modes available for selection
- Different light-off delay times selectable
- Low-dim level during vacancy adjustable
- Easy to mount under a cabinet or shelf
- Lens cap supplied for range reduction

APPLICATION NOTES

- Suitable for the LED lighting powered by 0-10V driver
- Place the sensor above the area with the most motion
- Do not mount the sensor right above or nearby a heat source
- Easy screw down mounting for universal location

WIRING



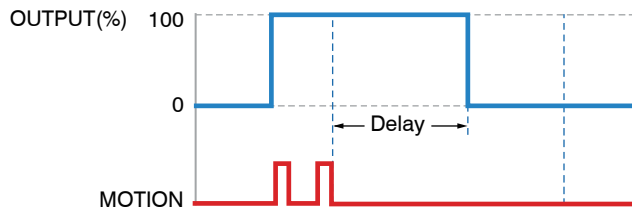
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CONTROL DESCRIPTIONS

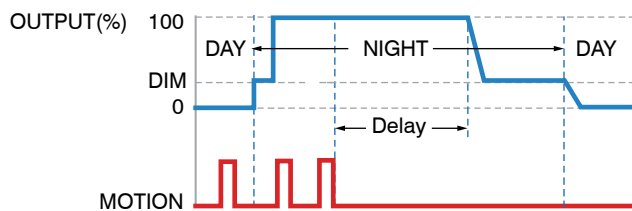
Four different control modes can be selected via DIP switch setting to provide different lighting control. Low-dim level can be easily adjusted and displayed by rotating the potentiometer.

OOS



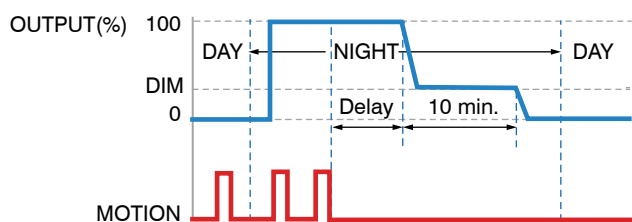
The sensor will turn on the light with 100% power whenever it detects occupancy, and turn off the light if no movement is detected within the delay time set.

OSLA



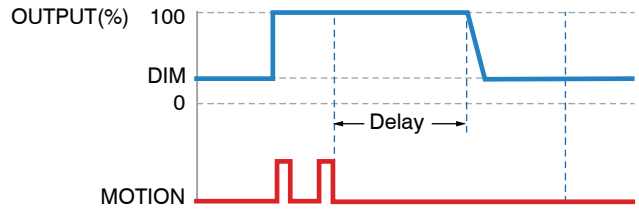
The sensor will inhibit the light during daytime (ambient light > 50 lux), and automatically turn on the light as the dim level set during nighttime (ambient light < 20 lux) to provide safety light. The sensor will power the light to 100% when it detects occupancy, and dim to the low level after the delay time elapses. Safety night light will be automatically switched off if ambient light level is higher than 50 lux.

OSLATO



The sensor will inhibit the light during daytime (ambient light > 50 lux), and turn the light to 100% when it detects occupancy during nighttime (ambient light < 20 lux). If no movement is detected within delay time, the sensor will dim the light to low level for 10 minutes as Time-Off delay. The sensor will switch the light back to 100% if it detects movement during Time Off delay, or the light will be switched off if no further movement is detected.

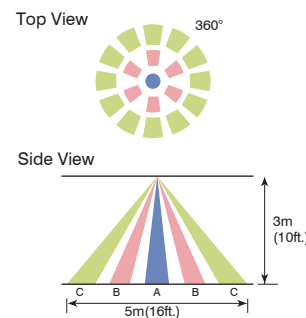
OSO



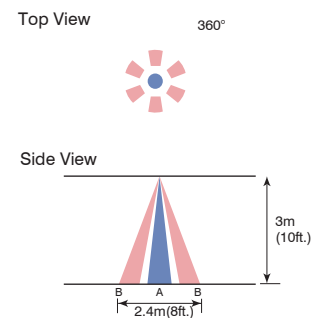
The sensor will turn on the light with 100% power whenever it detects occupancy and dim to the low level set if no further movement is detected within delay time.

DETECTION PATTERN

Standard



Range with mask cap on



SPECIFICATIONS

| | |
|---------------------|-------------------------------------|
| Power supply | 12-48 VDC |
| Current drain | <2.5 mA @48V, load OFF |
| Control output | 0-10V |
| Sensing technology | Passive Infrared (PIR) |
| Day/Night threshold | Day: >50 lux, night: <20 lux |
| Low dim level | 10-60% |
| Warm-up time | Approx. 90 sec. |
| Detection coverage | 2X of mounting height |
| Mounting height | 0.6~3 m (2~10 ft) |
| Detection zones | 38 zones |
| Cable length | Approx. 4"(10 cm) |
| Detectable speed | 0.15~3 m/sec (0.5~10 ft/sec) |
| Op. temperature | -10°C~55°C (14°F~131°F) |
| Dimensions | 66 x 30 x 24 mm (2.6"x 1.2"x 0.95") |