Dialog® Ceiling Occupancy Sensor*

Project Name: _____

Part Number: _____ **Date:** _____

Features

- Dual Technology (PIR & ADI-Voice)
- Occupancy/ Vacancy modes
- 360º coverage pattern
- Integrated photocell for daylight harvesting
- Dialog 2-Wire low voltage power and data network
- Programmable through IR Setting Unit

California TITLE 24 Compliant

ASHRAE 90.1 Compliant

The Dialog® Ceiling Occupancy Sensor is a part of a Dialog centralized control system as it provides occupancy / vacancy detection via a dual technology recessed ceiling mounted sensor. The Ceiling Occupancy Sensor only requires connection to the 2-wire (18/2 AWG) Dialog® power and data network. The Dialog occupancy sensor uses PIR and ADI-Voice technologies to determine the presence of people and perform the control actions when occupancy / vacancy is detected. Self-Adapting mode can be set to use both Passive Infrared (PIR) & Accurate Detection Intelligence (ADI) Voice technologies to automatically track occupancy tendencies for continuous maximizing energy savings. Smart Sense allows for immediate return to occupied mode in the event of a false off being triggered.

Programming can be performed by using the IR Setting Unit for added convenience, especially during commissioning. The WOR sensor will fit in a standard octagon box with conduit entering from opposite sides. The recessed sensor provides 360º of coverage and has a tilting lens to direct the sensor to specific areas.

The Dialog Lighting Control Unit is part of the Dialog System which includes relay panels, control cards and peripheral devices (Occupancy Sensor, Daylight Sensor, Wall Station Switches). Systems are built project specific, then factory programmed and tested before shipping to site. On-site support for commissioning is provided as needed.

PART NUMBER	DESCRIPTION
WORSDG1-P-N	Dialog standard range ceiling mount recessed occupancy sensor
WORXDG1-P-N	Dialog extended range ceiling mount recessed occupancy sensor
WORBDG1-P-N	Dialog high-bay range ceiling mount recessed occupancy sensor

Sensor Modes and Settings

Programming - IR

Programming can be done with the WIR-3110 setting unit. For more details and additional options please see the “IR Setting Unit Manual”

Detection (Dual or PIR Only)

When in operation, the sensor will detect initial motion using Passive Infrared; once motion is detected the ADI-Voice is then activated to work alongside the PIR to maintain occupancy. The ADI-Voice can be disabled on any dual tech sensors.

Automatic Timeout

By setting the timeout dial to maximum, the sensor will be put into automatic mode which will adjust the time out automatically to maximize energy savings and occupant comfort.

Vacancy

The low voltage sensor can be selected as a vacancy (Off only) sensor. This provides additional energy savings by forcing the user to turn the lights on manually. The low voltage sensor has a built-in override; allowing for the sensor to be operated as a vacancy sensor. For two pole sensors, it provides multi-level control capability.

Smart Sense

When vacancy occurs, sensitivity of the ADI-Voice technology transitions from maximum to zero over an adaptively determined time period, based on occupancy tendencies. During the period, ADI-Voice can turn the lights back on immediately, even with no line-of-sight to the sensor, assuring the best combination of user convenience and energy savings.

Walk-Thru

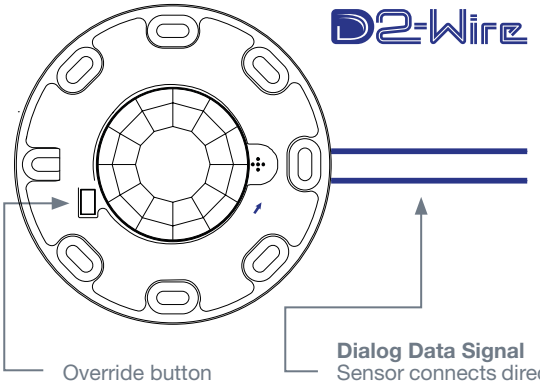
Energy consumption due to false triggers is minimized by the automatic walk-through mode. This feature turns the lights off after 3 minutes if no occupancy detection occurs in the first 30 seconds after initial turn on.

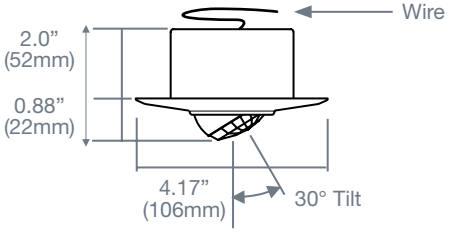
Photo Cell (-P)

When enabled, occupancy alone will not trigger the output state to on. If occupancy is detected AND there is a deficiency of natural light, the output is triggered on. An increase in natural light will not force the lights off, but as the ambient light level drops, the lights will turn on automatically. This feature also limit the manual switching, ensuring the lights are not turned on if adequate light is present.

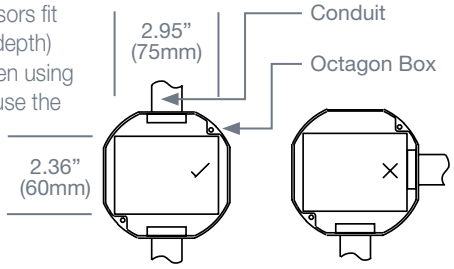
Wiring and Installation

The WOR Series Low Voltage Sensors are enabled with #18 AWG leads.





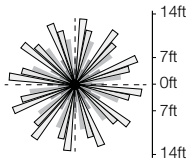
Our Recessed Ceiling Sensors fit into a standard 4" (2 1/8" depth) Octagon junction box. When using shallower junction boxes, use the included spacer ring.



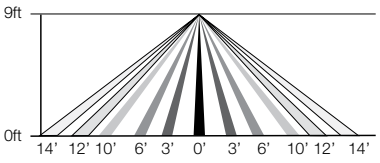
LENS RANGE AND COVERAGE PATTERNS

Standard Range Lens (S)

TOP VIEW

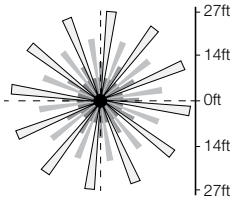


SIDE VIEW

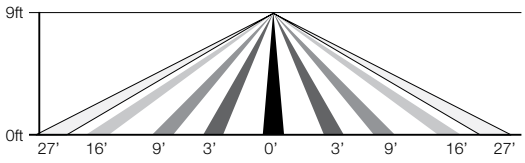


Extended Range Lens (X)

TOP VIEW

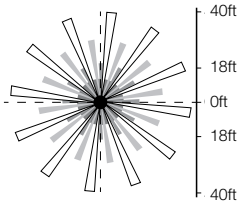


SIDE VIEW

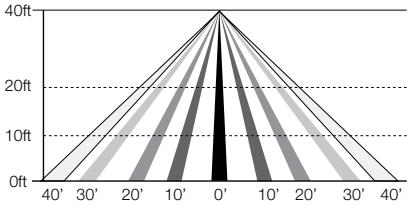


High Bay (B)

TOP VIEW



SIDE VIEW



FUNCTIONALITY	• Occupancy / Vacancy settings • 30 degree tilt lens • Integrated switch for commissioning override • Photocell for daylight harvesting • Dual technology PIR and ADI-Voice Technology
COMMUNICATIONS	• Dialog 2-wire (18/2 AWG) low voltage, non-polarized, power and data bus
CURRENT DRAW	• 3mA
APPROVALS	• ASHRAE 90.1 Compliant • California Energy Commission Title 24 & NYLL 48 Compliant • FCC Compliant
ENVIRONMENT	• Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity • Operating temperature: 14°F to 140°F (-10°C to 60°C) • Storage temperature: -14° to 140°F (-25° to 60°C)
WARRANTY	• Standard 1-year

*Patent Pending Subject to change without notice. Rev. 7/3/18