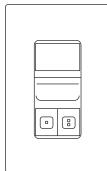
WALLSENZR

LDT-700 series

Line Voltage Dual-Tech Wall Switch Sensor

INSTALLATION INSTRUCTIONS





INDOOR USE ONLY **Utilisation a L'interieur Uniquement**

WARNING & CAUTION

- . Risk of Electric Shock Disconnect power supply at the circuit breaker before installing, replacing lamps, or servicing.
- DO NOT control a load in excess of specified ratings to avoid damaging the sensor or the property.
- Install and use this sensor in accordance with electrical codes and regulations.
- This device is intended to be installed by a qualified electrician. DO NOT attempt to service or repair.

AVERTISSEMENT & PRUDENCE

- · Afin d'eviter tout risque de choc electrique ou electrocution, couper le courant au disjoncteur avant installation, remplacement des lampes ou tout service d'entretien.
- NE PAS contrôler une charge supérieure à la capacité spécifiée pour éviter d'endommager le capteur ou la propriété.
- Installer et utiliser ce capteur conformément aux codes et règlements
- Ce dispositif est destiné à être installé par un électricien qualifié. NE PAS tenter de réparer.

FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference,

(2) This device must accept any interference received, Including interference that may cause undesired operation.

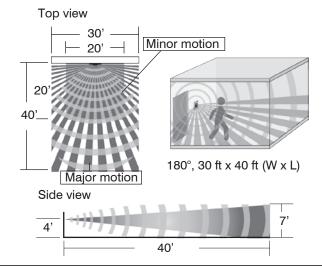
Install the sensor at least 1ft. away from any occupant.

OVERVIEW & OPERATION

The LDT-700 series is a 2-pole dual technology line voltage wall switch sensor designed to fit in a standard NEMA wall box for automatic lighting control. This state-of-the-art wall switch sensor combines digital Passive Infrared and advanced High Frequency Dopplersensing technologies into an aesthetically pleasing housing to provide excellent occupancy/vacancy sensing performance within its 180° field of view detection range.

The LDT-700 contains two relays and two push buttons, for controlling two lighting loads independently. A dual color LED indicates the sensor detection. BLUE for PIR and GREEN for HFD. Pressing the push-button will change the state of relay contacts manually. The sensor provides typical occupancy sensing (Auto-ON, Auto-OFF) control on pole-1 and vacancy sensing (Manual-ON, Auto-OFF) control on pole-2. Different control modes of each pole can be programmed via DIP switch settings. Presentation Mode (PM) allows the occupant to switch OFF the load as desired by pressing the specific push-button. The load will remain OFF if motion is detected before the time delay elapses. Pressing the push-button again will turn the load back ON and the sensor will operate as per sensor setting. If no motion has been detected and the time delay expires, sensor will return to normal operation and turn ON the load with the next sensed motion.

DETECTION COVERAGE



INSTALLATION NOTES

- 1. The sensor is more sensitive to the movements "crossing" the detection zones than "toward" or "away" the sensor. To obtain better sensitivity, ensure the sensor to have clear field of view for the occupant's motion within the desired coverage.
- 2. The closer movement is to the sensor, the more sensitive the sensor is.
- 3. The sensor should be mounted within the specified mounting height for optimal performance.
- 4. Avoid blocking the sensor with any obstacles, such as door, plant, partition or furniture. As a general rule, every occupant within the desired range should be able to clearly see the sensor.
- 5. Do NOT mount the sensor directly above or nearby a heat source, or where unintended motion (e.g. hallway traffic) will be "seen" by the sensor.

SPECIFICATIONS

Power supply	120/277VAC, 60Hz		
Sensing technology	Digital PIR & High Frequency Doppler		
	Incandescent/Halogen - 800W (VA)		
Maximum load,	Fluorescent Ballast/CFL - 800W (VA)		
per pole	Ballast Electronic (LED) - 500/800VA@120/277V		
	Motor – 1/6 HP		
Inrush current	Max. 80A, 16.7 ms @60Hz, per pole		
Load switching	Zero-cross Hybrid-Switching		
Detectable speed	1~10 ft./sec. (0.3~3 m/sec)		
Mounting height	3~5 ft. (90~150 cm) above the floor		
Detection coverage	Major motion - 30 ft x 40 ft (W x L) @4 ft high		
Detection coverage	Minor motion - 20 ft x 20 ft (W x L) @4 ft high		
Ambient light level	7 levels, from dark to 24 Hour		
Delay time setting	T/1'/3'/5'/10'/20'/30', T=10 sec. for testing		
Op. humidity	Max. 95% RH, non-condensate		
Op. temperature	-40°F ~ 131°F (-40°C ~ 55°C)		
Dimensions	4.13"H x 1.77"W x 1.65"D (w/mounting plate)		











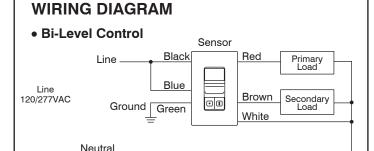


P/N: 058-70005-004

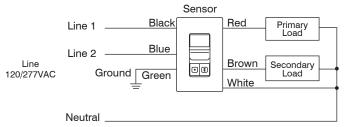
Printed in Taiwan

This product may be covered by one or more U.S. patents or patent applications. Please visit www.irtec.com for more information.

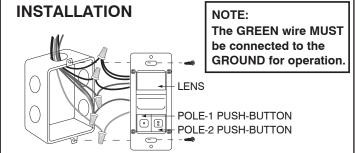




• Dual Circuit Control



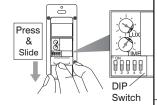
The sensor may be available with other control options, consult a qualified engineer or contact info@irtec.com for assistance.



- 1. Ensure the power has been turned OFF at the circuit breaker.
- Prepare the wires with proper length (cut the excessive length, if necessary) and strip for connection. Connect the sensor wires to the wires of line voltage and load according to the wiring diagram of desired control.
- Carefully bend the wires in the wall box after all wires are properly connected. Mount the sensor in the wall box with the screws provided.
- Conduct sensor operation test (refer to the TESTING section). Replace the wall plate cover after sensor testing and setting completed.

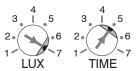
SETTING

To program the sensor control mode or change the settings, press the push-button cover and slide it down as shown.



TIME - Delay time

TIME setting determines the delay time that the sensor will hold the load ON after the last motion detected. Factory setting is 10 minutes, and it can be changed by pointing the arrowhead of potentiometer to the specific position.



POS.	1	2	3	4	5	6	7
TIME	Т	1'	3'	5'	10'	20'	30'
LUX	10	20	35	50	100	150	24H
					Fac	tory	Set

LUX – Ambient light level

LUX setting determines the threshold of ambient light level that the sensor will inhibit switching on the load. The factory setting is ALS disabled (24 Hr) for testing convenience, and it can be changed by pointing the arrowhead of potentiometer to the specific position.

TESTING

- Restore the line power for sensor operation and wait for the sensor to warm-up (GREEN LED will blink during the warm-up period).
- 2. Move within the desired range and observe the sensor detection. BLUE blink indicates the PIR sensor detected, and GREEN blink indicates the HFD sensor detected. Move outside of the desired range and observe if the HFD sensor can detect. If GREEN LED blinks, reducing the HFD sensitivity accordingly.
- Replace the wall plate cover after sensor testing and setting completed.

NOTE: The connected load will be switched ON as delay time set (factory default 10 minutes) after the power applied. The delay time can be set to the shortest (10 seconds) for test convenience. Ensure to set the TIME back to the desired delay for optimum operation after test.

DIP Switch

HFD Sensitivity - SW1 & 2

The combinations of DIP switch 1 and 2 determine the sensitivity of HFD sensor.

all	ON 1 2 3 4 5
al	ON 1 2 3 4 5
.1	ON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Operating Sensor - SW3

DIP switch 3 changes the operating sensor. If necessary, the LDT-700 can be programmed as a single HFD wall switch sensor.

PIR & HFD	ON 1 2 3 4 5
HFD only	ON 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Pole-1 Control Mode - SW4

Occupancy Sensing with ALS Control (OSAC)

Sensor will turn ON the load of pole-1 when it detects the presence of occupant, and turn OFF automatically if no occupant motion is detected before the time delay elapses. The ambient light sensor (ALS) will inhibit switching ON the load if ambient light level is higher than the set threshold.



Occupancy Sensing with ALS & PM (OSAP)

Sensor will control the load of pole-1 as in OSAC, but with ALS and Presentation Mode (PM) both active.



Pole-2 Control Mode - SW5

Vacancy Sensing Only Control (VSOC)

VSOC requires occupant to press the pole-2 push-button to turn ON the connected load of pole-2, and sensor will automatically switch OFF the load if no occupant motion is detected before the time delay elapses.



NOTE: The sensor will automatically turn ON the light if it detects occupant activity within 30 seconds after time delay elapsed.

Ambient Light Sensing Only (ALSO)

The sensor will automatically turn ON the connected load of pole-2 when ambient light is lower than the LUX level set, and turn OFF the load automatically when ambient light is higher than the threshold set.



Pole One with Extended Delay (POED)

The sensor will control the load of pole-2 as per pole-1 is set, but with an Extended Delay for 5 minutes.



SW4=OFF