

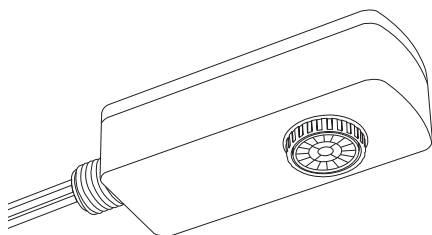
TRANS



LRS-202SP EU

Line Voltage Occupancy Sensor

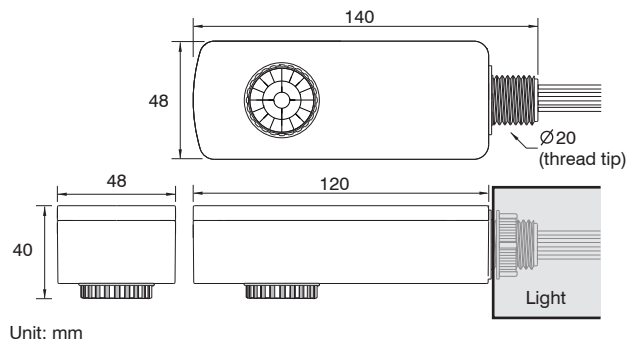
INSTALLATION INSTRUCTIONS



APPLICABLE REMOTE (order separately)

Model	Description	Remarks
SRP-280	TRANS Remote Programmer	Full functionality
URP-100	User Remote	Manual ON/OFF TIME/LUX setting

DIMENSIONS



WARNING & CAUTION

- Risk of Electric Shock - Turn power off at circuit breaker(16A) before power on. Disconnect power supply before servicing.
- Cycling the power to the sensors will cause failure over time.

INTRODUCTION

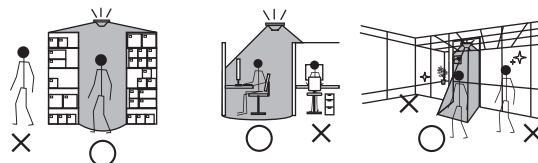
The LRS-202SP is a low profile, two-way IR remote programmable line voltage switching occupancy sensor designed for all-purposes energy efficient lighting control.

This state-of-the-art occupancy sensor employs a cutting edge quad-element pyroelectric infrared sensor to provide omni-directional sensing capability of occupant's presence and movements. The sensor can be easily programmed with specific delay time and ambient light level as desired, or download the existing settings of installed sensor from the floor via a two-way handheld IR remote programmer (SRP-280).

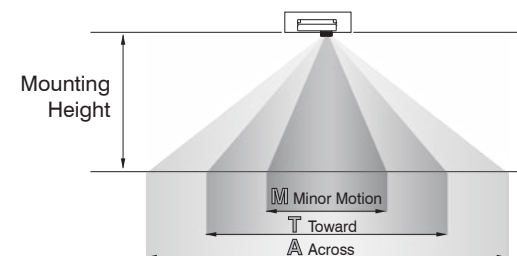
This IP-65 batten mount sensor can be externally assembled with an OEM luminaire through a 1/2" hole. A low profile flat lens provides excellent low-bay occupancy sensing capability within its coverage of 2X mounting height.

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.



DETECTION COVERAGE

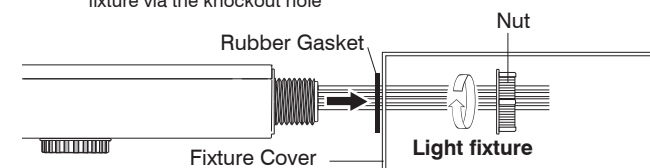


Mounting Height	2.4 m (8 ft)	3.0 m (10 ft)	3.6 m (12 ft)	6.0 m (20 ft)
Coverage Diameter	M 1.0 m (3 ft)	2.0 m (7 ft)	3.0 m (10 ft)	--
	T 3.0 m (10 ft)	4.0 m (13 ft)	5.0 m (16 ft)	6.0 m (20 ft)
	A 5.0 m (16 ft)	6.0 m (20 ft)	7.0 m (23 ft)	9.0 m (30 ft)

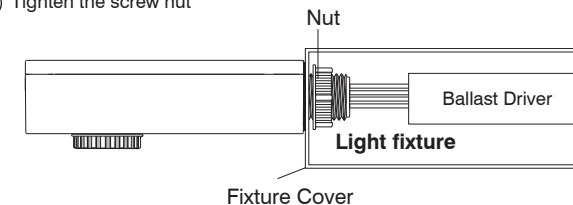
NOTE: High ambient temperature (above 28°C/82°F) could reduce the coverage of PIR sensor. If ambient temperature at the covered area are expected to be high sometimes, consider adding more sensors or reduce the mounting height, if possible.

MOUNTING

- ① Assemble the sensor with fixture via the knockout hole



- ② Tighten the screw nut



CONTROL MODE

The LRS-202SP sensor can be programmed by SRP-280 remote programmer to control the lighting in one of the following modes. For more details of specific control mode, please visit www.irtec.com or contact an IR-TEC team member directly.

Mode	Control
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 to ON. Turn OFF the light after occupant leave and delay time elapses.
OFF	This is a manual control mode can be used when you need the light to be off for a certain period of time. Once this mode is set, all lighting controlled by the sensor/controller will remain off until another mode is selected.

SENSOR ACKNOWLEDGMENT

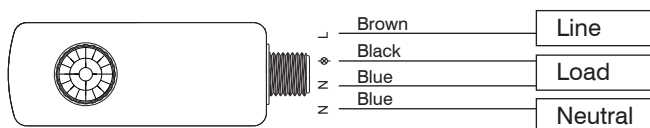
Acknowledgement	Sensor LED	Beep	Lighting
Full sensor setting upload completed	-	Long x 1 Short x 2	Flash x 2
Sensor resume to factory default	-	-	Flash x 2
Single setting ok	-	Short x 2	-
Occupancy detected	Flash x 1	-	-

SENSOR SETTINGS

The followings are settings and options available with LRS-202SP that can be configured through the operation of SRP-280 remote programmer. For more details of remote sensor setting, please refer to the operation instruction of SRP-280.

Settings	Description	Options	Default
CONTROL	The mode that the sensor will control.	ON/OFF, OFF	ON/OFF
AMBIENT LUX	The ambient light level that sensor will perform the control.	10/20/40/60/100/200/400 LUX/DISABLED	DISABLED
DELAY	The delay time that sensor is set to turn off the light after the area is vacant.	30 sec./1/3/5/10/15/20/30/60 min.	10 min.
LED INDICATOR	Enable/disable the LED indicator of sensor.	ENABLED/DISABLED	ENABLED
SENSITIVITY	The sensitivity of occupancy sensor.	HIGH/NORMAL/LOW	HIGH
DAY O'RIDE	Enable/disable daylight override control. Sensor will shut off the light when ambient lux exceeds the override level set below. Only available if AMBIENT LUX is enabled.	ENABLED/DISABLED	DISABLED
O'RIDE LEVEL	The ambient lux level to enable daylight override. Only available if DAY O'RIDE is enabled.	HIGH(~1.8X)/NORMAL(~1.5X)/LOW(~1.3X)	NORMAL

WIRING DIAGRAM



SPECIFICATIONS

Power supply	100/120/230/277VAC, 50/60 Hz		
Maximum load	100-120VAC	230VAC	277VAC
-Incandescent/Halogen	800W(VA)	5A	1200W(VA)
-Fluorescent Ballast/CFL	800/W(VA)	5A	1200W(VA)
-Ballast Electronic (LED)	540VA	5A	1200VA
Infrared sensor	Omni-directional pyroelectric		
Detectable speed	0.3~3 m/sec (1~10 ft./sec.)		
Mounting height	2.4~6m (8~20 ft)		
Detection range	Subject to the mounting height		
Op. humidity	Max. 95% RH		
Op. temperature	-10°C~55°C (14°F~131°F)		
Dimensions	140x48x40mm (5.51"x1.89"x1.50")		

WARRANTY

IR-TEC International Ltd. warranties this product to be free of defects in materials or workmanship for a period of five years from date of shipment. There are no obligations or liabilities on the part of IR-TEC International Ltd. for consequential damages arising out or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.