TRANS

REMOTE

LRS-202SP EU
Line Voltage Occupancy Sensor

INSTALLATION INSTRUCTIONS

DIMENSIONS

140

48

Ø20 (thread tip)

48

120

40

Light

Unit: mm
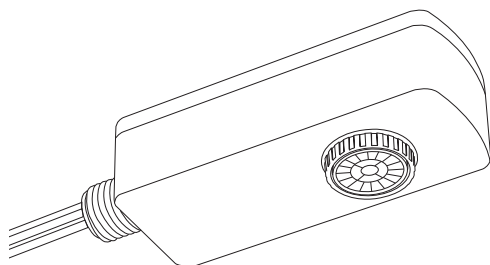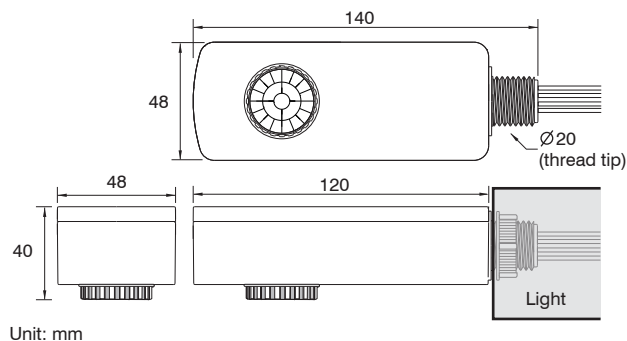
⚠ WARNING & CAUTION

- **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.
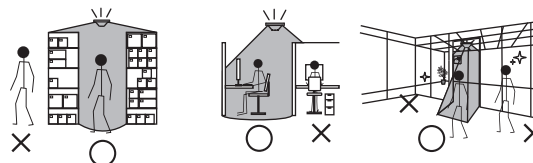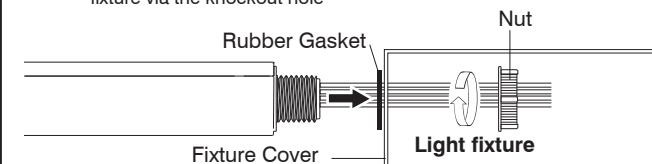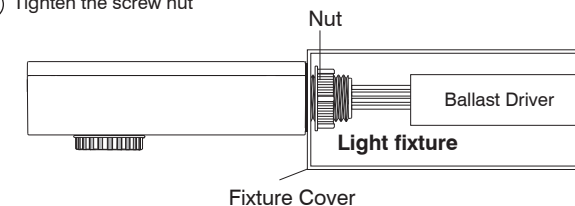
DETECTION COVERAGE

Mounting Height

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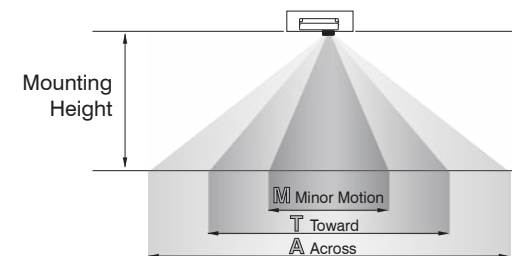
Mounting Height		2.4 m (8 ft)	3.0 m (10 ft)	3.6 m (12 ft)	6.0 m (20 ft)
Coverage Diameter	M	1.0 m (3 ft)	2.0 m (7 ft)	3.0 m (10 ft)	--
	T	3.0 m (10 ft)	4.0 m (13 ft)	5.0 m (16 ft)	6.0 m (20 ft)
	A	5.0 m (16 ft)	6.0 m (20 ft)	7.0 m (23 ft)	9.0 m (30 ft)

MOUNTING

① Assemble the sensor with fixture via the knockout hole

Nut

Rubber Gasket

Light fixture

Fixture Cover

② Tighten the screw nut

Nut

Ballast Driver

Light fixture

Fixture Cover

UK CA CE RoHS COMPLIANT

IR-TEC

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	1. While ambient lux is **higher** than the level set, light stays **OFF**. 2. While ambient lux is **lower** than the level set, and **occupancy detected**, switch the light to **ON**. 3. 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.
SENSITIVITY	The sensitivity of occupancy sensor.	HIGH/NORMAL/LOW	HIGH

WIRING DIAGRAM

	Brown		Line
L	Black		
	Blue		Load
N	Blue		
N			Neutral
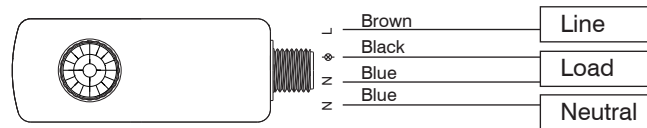
SPECIFICATIONS

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.

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