TRANS

LRS-202SP

Line Voltage Occupancy Sensor

OVERVIEW

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.

FEATURES

- Omni-directional digital pyroelectric infrared sensor
- Digital data control ambient light sensor built-in
- 100/120/230/277VAC multiple line voltage operation
- 2-way IR remote programmable control settings
- Walk test and sensor operation LED indicator
- Remote programming range exceeds 10 m.
- Beeping or light flashing acknowledgement
- Ideal for linear, batten mount or IP-65 luminaires

APPLICATION

☑ Occupancy Sensing On/Off Control

The LRS-202SP can be externally mounted with variety types of commercial luminaires through 1/2" knockout hole and provide on/off switching of the connected light, or other loads, by sensing the presence and movements of the occupant. Basic wiring diagrams are included. Consult with an IR-TEC team member if a more complex wiring diagram is required.

APPLICABLE REMOTE (order separately)

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

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CONTROL MODES

The sensor can be easily configured to control the light in one of the following schemes via remote programmer. For details of specific control mode, please visit www.irtec.com or contact an IR-TEC team member directly.

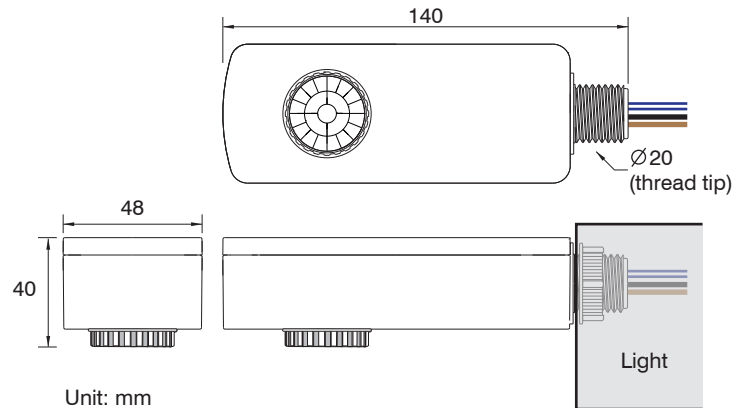| Mode	Day[1]	Night[2]	Remarks
ON/OFF	Vac: OFF Occ: ON/OFF	Vac: OFF Occ: ON	
OFF	Vac: OFF Occ: OFF	Vac: OFF Occ: OFF	Light stays off

OFF : Light OFF all the time

Vac : Vacant   **Occ** : Occupied

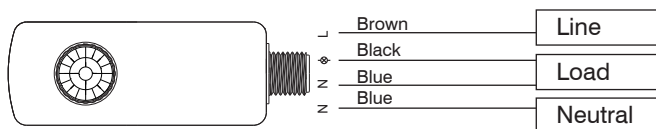[1] While ambient light level is higher than the threshold.
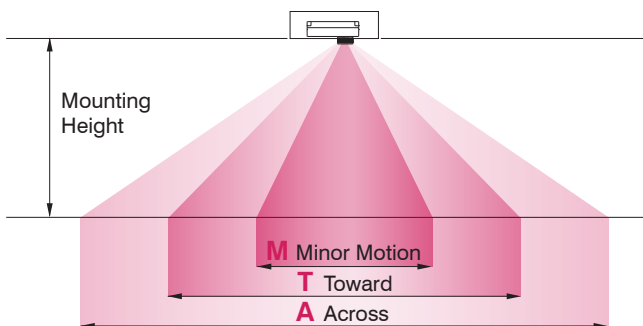
[2] While ambient light level is lower than the threshold.

DIMENSIONS

Unit: mm

WIRING DIAGRAM

Brown		Line
Black		Load
Blue		
Blue		Neutral

DETECTION PATTERN

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)

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.

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	800W(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")		