

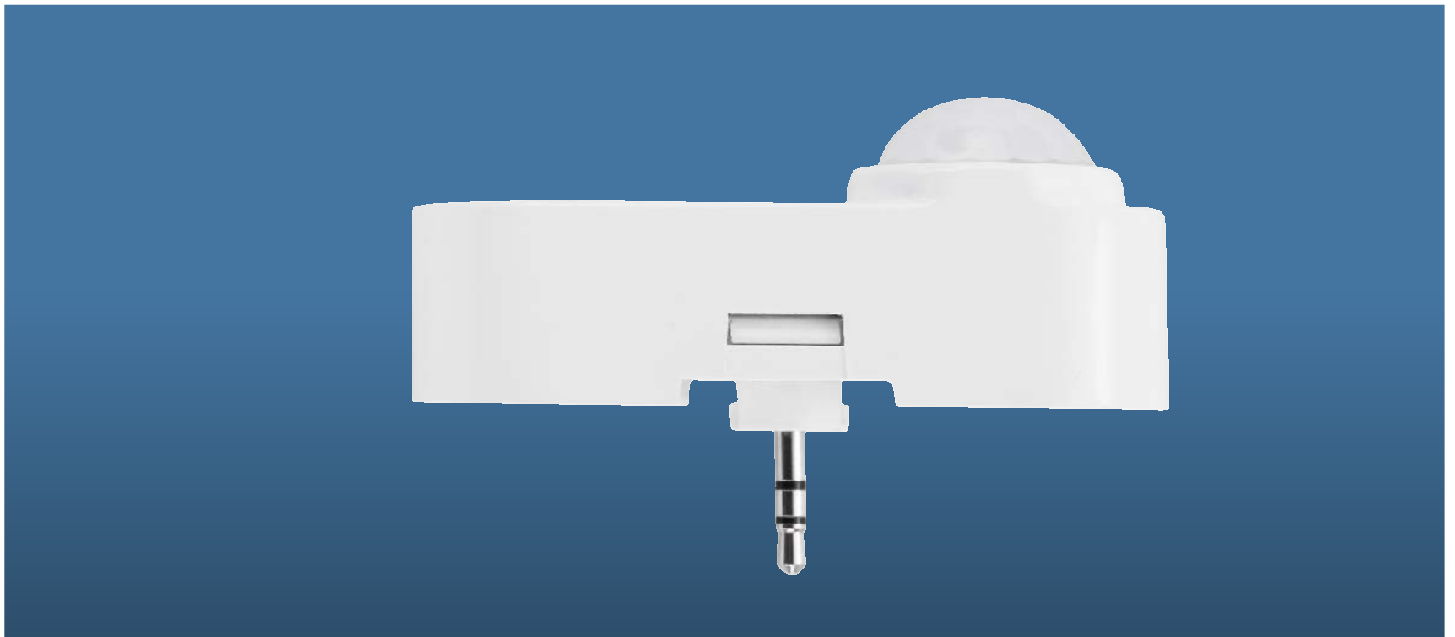


DESCRIPTION

JLS-ESS-IFS06R is a PIR sensor that combines occupancy sensing with photocell. Compact design to fit various style luminaires.

FEATURES

- Suitable for low profile luminaires
- Compact oval-shaped PIR sensor with integrated photocell and 2.5mm male audio connector enables easy plug and play integration for luminaire level lighting control (LLLC)
- Operates on 12V DC supplied by a 0-10V LED driver
- Integrated photocell enables dusk-to-dawn operation independent of motion Detection.
- Selectable modes for various applications via the JLS-ESS-RM51 remote controller
- Auto-calibrates in Daylight Harvesting mode to reach target illumination by measuring combined natural and electric light



Revised 18/9/2026

Specifications are typical values and may change without notification

efficiency. illuminated.



JAYKAL
efficiency. illuminated

PIR sensor with daylight sensor

SPECIFICATIONS	
MODEL	JLS-ESS-IFS06R
INPUT VOLTAGE	12VDC $\pm$ 1V
INPUT CURRENT	9mA Max
INPUT POWER	<0.1W
SINKING CURRENT	$\leq$ 10mA
DIMMING	Class 2, 0-10V DC 10mA Max
SINKING CURRENT	10mA Max
HOUSING MATERIAL	UL 94-5VA
DETECTION RANGE	32ft Max
MOUNTING HEIGHT	15ft Max
INDOOR/OUTDOOR USE	Indoor Use Only
OPERATING TEMPERATURE	-30°C to 65°C, -22°F to 149°F
STORAGE TEMPERATURE	-30°C to 85°C, -22°F to 185°F
IP RATING	IP20
COLOR	White
WARRANTY	5 Years
COMPLIANCE	UL8750, RoHS
SAFETY	cULus Listed E504054 Low Bay Sensor

Due to our continued efforts to improve our products, specifications are subject to change without notice.

ORDERING GUIDE	
MODEL	Description
JLS-ESS-IFS06R.C2	Fixture Built-in Low Bay Sensor
JLS-ESS-LBL2	Low bay lens, Mount Height 15ft Max, coverage 32ft Max, For Minor Movement
SC05	Slim size audio jack receptacle for low bay application

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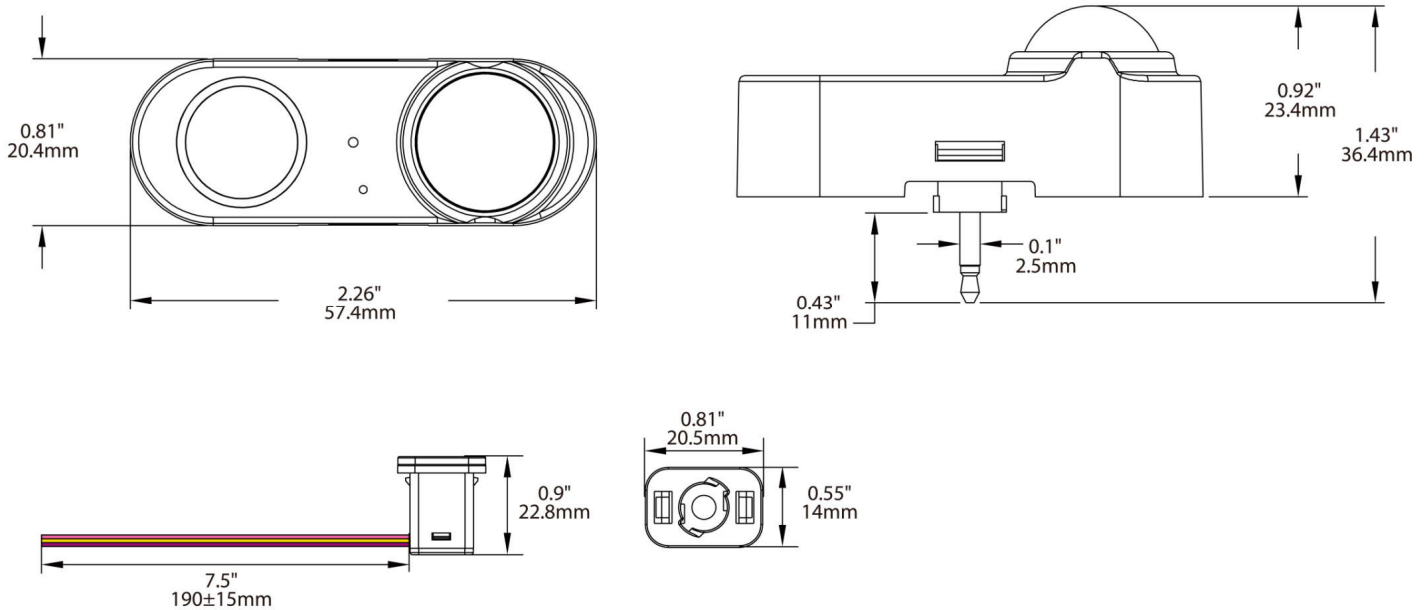
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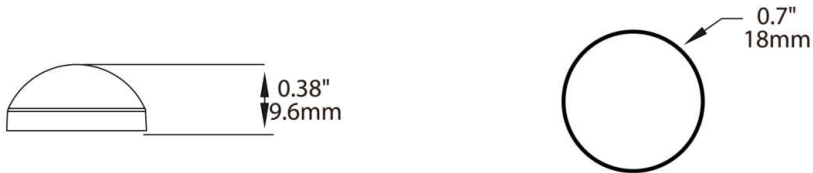
PIR sensor with daylight sensor

DIMENSIONS (Unit: inch/mm)



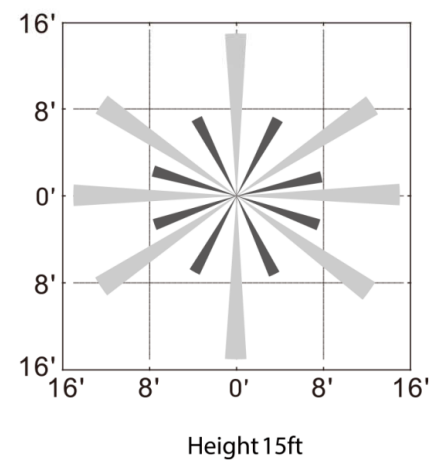
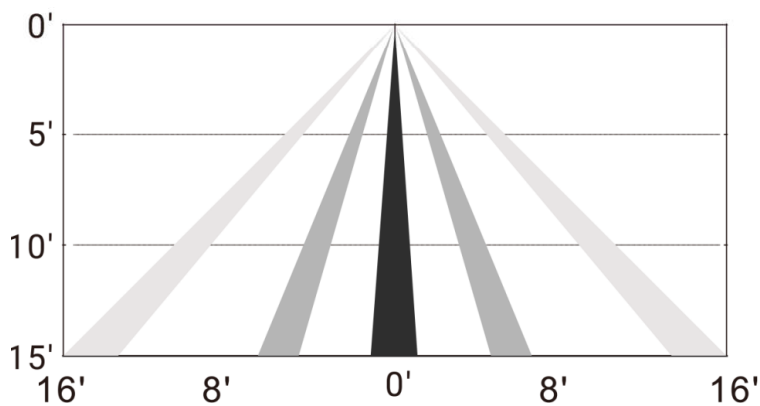
COVERAGE (Unit: inch/mm)

LBL2



Coverage Side View

Coverage Top View



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REMOTE GUIDE

ON	Turns ON luminaires.
OFF	Turns OFF luminaires.
TEST	Test mode will last 5 minutes, then return to the previous setting. In test mode, the hold time is 2 seconds, SDL is 50%, and the standby time is 2 seconds.
RESET	Trim-High = 100%, Sensitivity = High, T1 = 5 min, Standby Dim = 30%, T2 = 60 min, Photocell = OFF.
DIM+/-	Remote will manually dim the luminaire up or down in increments of 0.5 volts. Smooth dimming should occur when holding the dimming button.
TRIM-LEVEL	Set maximum threshold value at 50%, 75%, or 100%.
SENSITIVITY	OFF (PIR OFF, Enter PC ON/OFF function) / LOW (50%) / HIGH (100%).
HOLDTIME	Time of no occupancy after which the fixture goes to standby: 30s / 5 min / 15 min / 30 min.
F MODE DAYLIGHT HARVESTING	(Enable/Disable) Measures and sets a feature to allow the fixture to maintain a light level when turned ON.
STANDBY DIM	Select any standby dim level: 0% / 10% / 30% / 50%
STANDBY TIME	10s / 5 min / 15 min / 30 min / 1h / ∞. "∞" means the standby time is infinite, and the fixture is effectively controlled by the daylight sensor.
PHOTOCELL	LOW (1fc) / HIGH (50fc) / CAL (Collects the current Lux Level) ON.
MODE	Set settings to a program profile (A to F).
SEND	Send settings to the sensor.
DEFAULT MODE A	Trim-High = 100%, Sensitivity = Low, T1 = 30 min, Standby Dim = 50%, T2 = ∞, Photocell = CAL.
DEFAULT MODE B	Trim-High = 100%, Sensitivity = Low, T1 = 30 min, Standby Dim = 50%, T2 = 15 min, Photocell = CAL.
DEFAULT MODE C	Trim-High = 100%, Sensitivity = Low, T1 = 30 min, Standby Dim = 50%, T2 = 15 min, Photocell = OFF.
DEFAULT MODE D	Trim-Low = 50%, Sensitivity = Low, T1 = 30 min, Standby Dim = 50%, T2 = 30 min, Photocell = CAL.
DEFAULT MODE E	Manual Mode, Trim-High = 100%.
DEFAULT MODE F	Daylight Harvesting, Trim-Low = 50%, Sensitivity = Low, T1 = 15 min.

