

DAI Multifunctional Sensor

Model No: L30-RQ-1

Profile

- PIR sensor module for DALI and DALI2 lighting system
 - DALI multifunctional sensor is equipped with human infrared sensor chip and high-precision ambient illumination sensor.
 - Movement detection(PIR) instance type3(IEC62386-303) and illumination measurement instance type 4 (IEC62386-304)
- A: Movement detection function: sensing human, issuing single address, group scene, broadcast command;
- B: Illuminance sensor function: turn on the lamp when the illuminance is insufficient, and turn off the lamp automatically when the ambient brightness is high.
- Constant illumination function, control the light equipment in DALI bus to make the ambient illumination remains constant.
- Supply via DALI bus, no additional power supply
 - Flush mounted



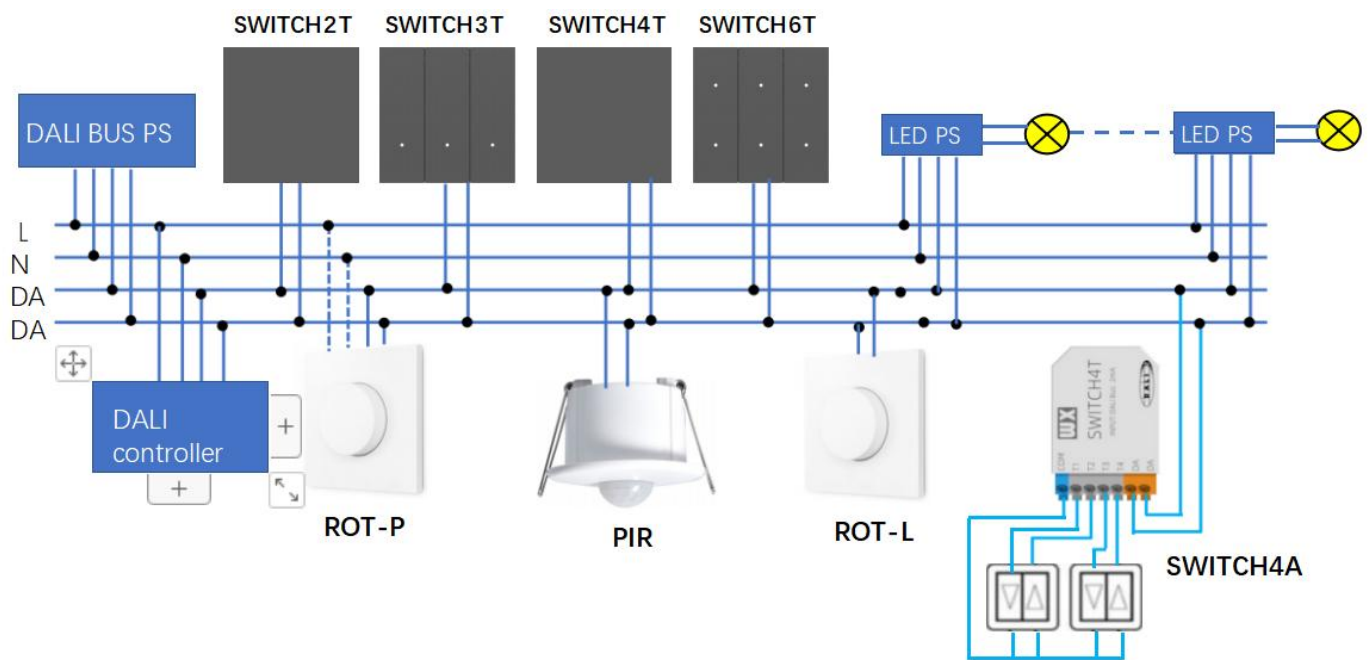
Features

- DALI-2 input devices in accordance with IEC62386-101, IEC62386-103, suitable for DALI-2 application controllers, not compatible with DALI-version 1 systems.
- Occupancy sensor in line with IEC62386-303:2017 standard, with passive infrared detection function, can also detect subtle movements.
- Illuminance sensor in line with IEC62386-304:2017 standard, can measure 0~1024ux, resolution 1lux.
- Refer to the IEC62386-304:2017 standard temperature sensor, which can measure -20~50°C with a resolution of 0.125°C.
- Refer to the humidity sensor of IEC62386-304:2017 standard, which can measure 0~100% RH with a resolution of 0.125%RH.
- Powered by DALI-2 bus, typically 4mA, max. 9mA.
- Small size, suitable for installation

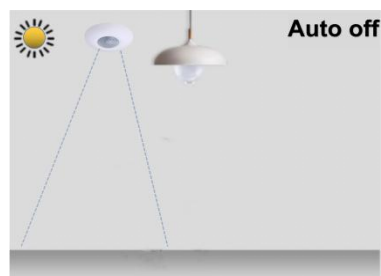
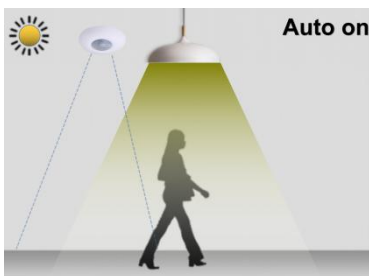
Technical Parameters

Model No	L30-RQ-1
Brand	LAMMIN
Input Signal	DALI signal
Input Voltage Range	9-24V DC
Max Load Current	9mA Max (@16.5V DC)
Hold Time	0S--85Min
Detection range (radius)	3-8m
Detection Angle	<90°
Certification	CE
Working Temp	-20°C ~ +50°C
Warranty	3 years
Size(L*W*H)MM	Φ65*40
Installation	Flush mounted

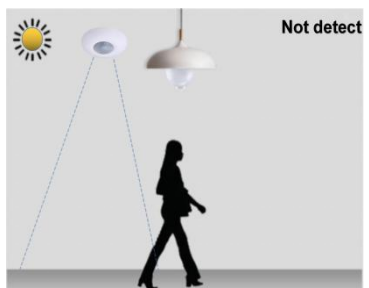
Wiring Diagram and Installations



Function Instruction



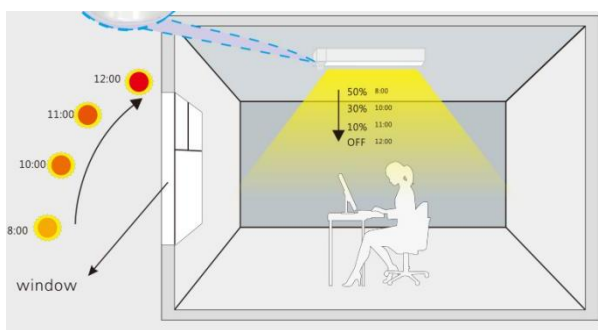
- Human movement detection mode
- When sensing human movement, the lamp will be lit; Otherwise the delayed time setting will issue the command to turn off the lamp. The panel can issue a command to disable the sensor.



- Human body detection + light induction control mode
- When the external light illuminance is greater than the set threshold illuminance, human movement detection is invalid, when the external light illuminance is less than the set threshold illuminance, it is effective.



- Ambient brightness control mode
- When the external illumination is less than the set threshold for 10s, the lamps will slowly light up. When the external illumination is greater than the set threshold for 10s, the lamps of the lamps will slowly be turned off



- Constant illumination control mode
- Set the illuminance value. If it is higher or lower than the set illuminance value, It will be issued gradually dimming commands to achieve a constant illuminance value. (Note: This function requires the infrared to be installed at the controlled light source)