IP65 DALI-2 PIR Zhaga book 18 Standard Motion Sensor

HIR15 (High-Bay)
DALI-2 output



Product Description

HIR15 is a Zhaga book 18 standard PIR motion sensor with DALI-2 output (40mA DALI-2 power supply built-in), which enables lighting designers/manufacturers to freely connect to luminaires. All sensor parameters can be programmed through remote controller HRC-11, like adjusting sensitivity, time, lux level, and brightness settings. Designed with a sturdy IP65 structure, HIR15 is perfect for high-bay applications, accommodating installations of up to 12m in height, making it ideal for outdoor lighting like streetlights.



TYPE D

Hardware Features

50mA DALI-2 Broadcast output

Zhaga Book 18 standard

Photocell Advance ™

IP IP65 design

High-bay (up to 12m height)

Remote controllable

5-year warranty

Technical Specifications

Input & Output Characteristics		
24VDC		
max<0.5		
l guaranteed: 30mA l max: 50 mA U rated: 15VDC		
0-1000Lux		
10% / 30% / 50% / 75% / 100%		

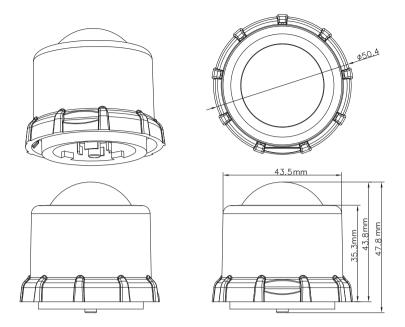
Ta: -20°C ~ +50°C
-30°C~+70°C
20~90%
IP65
Class II

Sensor Data	
Sensor principle	PIR
Detection range*	Max installation height: 12m Max diameter: 20m
Detection angle	360°

^{*} The detection range is heavily influenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.

Safety & EMC	
EMC standard (EMC)	EN55015, EN61547
Safety standard (LVD)	EN61347-1, EN61347-2-11
Certification	CE, UKCA
Compliance	RoHS Reach
DALI-2	IEC62386-101,103,351

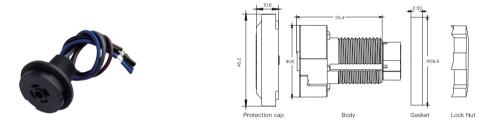
Mechanical Structure & Dimensions



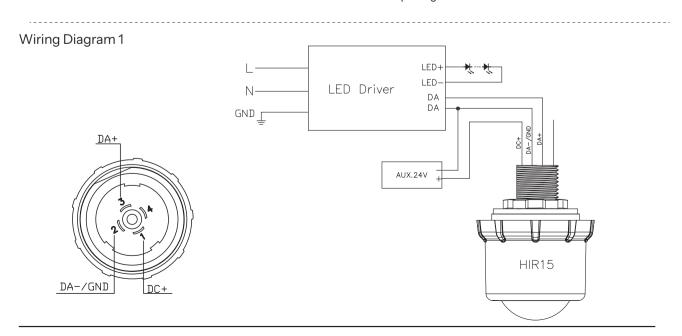
Receptacle Accessory

The HA18SKT receptacle is designed to be compatible with the SAM15 and HIR15 series products. It provides a Zhaga Book 18 standard interface, suitable for roadway lighting, area lighting, and occupancy lighting applications.

Mechanical Structure & Dimensions

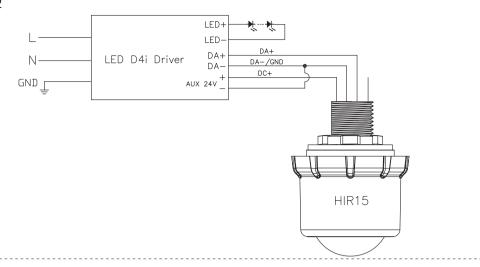


For more details, please refer to https://hytronik.com/product/ha18skt Note: HA18SKT not included in the package.

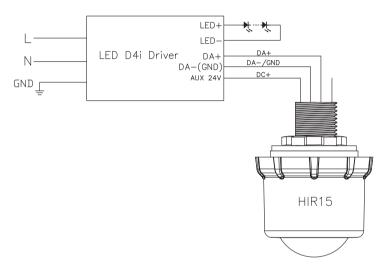


Subject to change without notice.

Wiring Diagram 2



Wiring Diagram 3

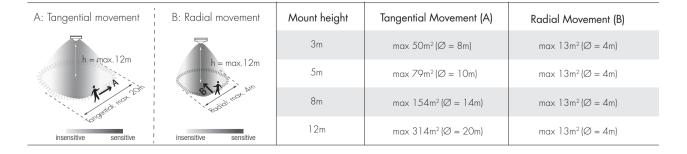


Detection Range

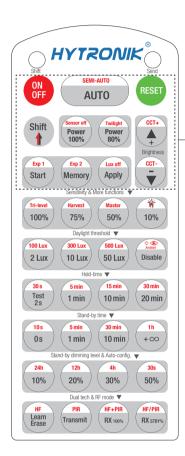
The data below is tested under following conditions:

- Single person walking;
- Sensor not connected to any driver that may have soft-on period;
- The testing is conducted in an open and spacious indoor field, without noticeable obstacles or influences that may affect PIR performances.



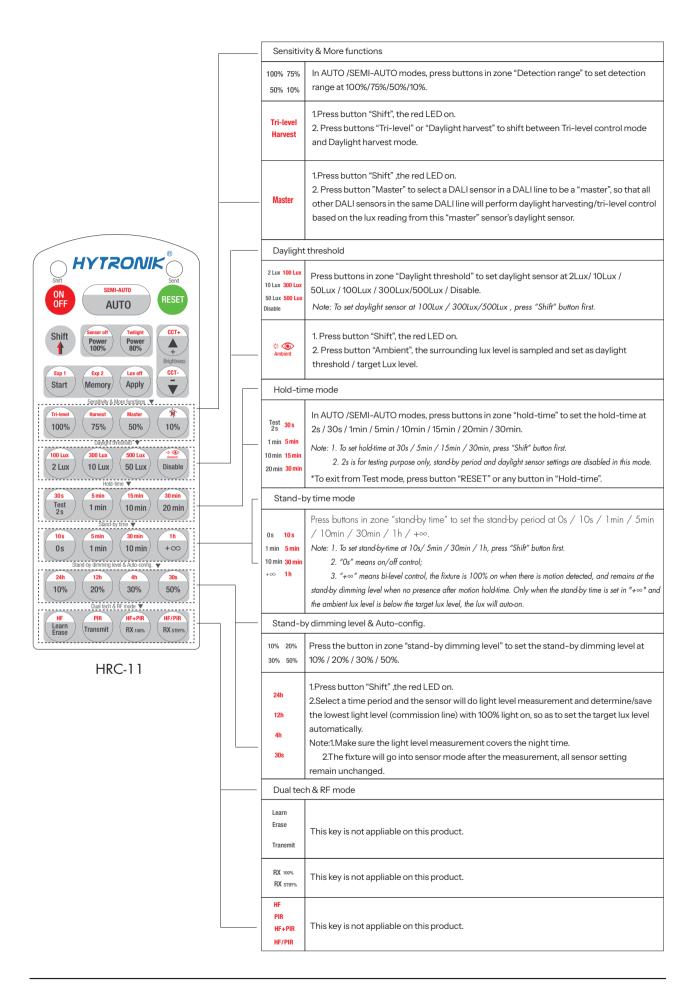


Settings (Remote Control HRC-11)



HRC-11

ON OFF	Press button "ON/OFF" to enter the ON/OFF mode or SENSOR OFF mode to control the light. Press button "AUTO" / "RESET" / "Sensor OFF" / "Twilight" or restart to exit this mode.		
RESET	Press button "RESET", perform the latest DIP Switch/Rotary Switch settings. The default settings are: Auto mode; Detection range 100%; Daylight sensor disable; Stand-by time10min; Stand-by dimming level 20%; Maximum Brightness & white Color; LED indication off; Lux off activated; PIR detection mode.		
Shift	Press button "Shift", the LED on the top left corner is on to indicate mode selection. All values / settings in RED are valid for 20 seconds.		
AUT0	Press button "AUTO" to initiate automatic mode. The sensor starts working and all settings remain as before the light is switched ON/OFF;		
SEMI-AUTO	This key is not appliable on this product.		
Power 100% 80%	Press buttons in zone "Power out" to select the light output at 80% (at initial 10,000 hours) or 100%.		
Sensor off	1. Press button "Shift", the red LED on. 2. Press button "Sensor off", the function of movement detection is disabled, the function of photocell is also disabled. OR Press button "Twilight", the function of movement detection is disabled, but the		
Twilight	function of photocell is still working, and the product becomes a pure dusk/dawn To exit from "Sensor off"/"Twilight" mode, press button "AUTO"/"SEMI-AUTO"/"RESET".		
(*)	Press these two buttons to adjust the light output brightness and set a new target lux level. The daylight sensor can measure ambient daylight level and ignore the LED light, so as to calculate how much artificial light is needed to maintain the target lux level.		
CCT+	1. Press button "Shift", tthe red LED on. 2. Press "CCT+" or "CCT-" button to adjust colour turning.		
Start Memory Apply	 Press button "Start" to program. Select the buttons in "Detection range", "Daylight threshold", "Hold-time", "Stand-by time", "Stand-by dimming level" to set all parameters. Press button "Memory" to save all the settings programmed in the remote control. Press button "Apply" to set the settings to each sensor unit(s). For example, to set detection range 100%, daylight threshold Disable, hold-time 5min, stand-by time +∞, stand-by dimming level 30%, the steps should be: Press button "Start", button "100%", "Disable", "Shift", "5min", "Shift", "+∞", "30%", "Memory". By pointing to the sensor unit(s) and pressing "Apply", all settings are passed on the sensor(s). 		
Lux off	The "Lux off" function is activated as default. When the ambient lux level exceeds the target level continuously for more than 5 minutes, the lights will be turned off. In AUTO /SEMI-AUTO/Twilight modes, to disable "Lux off": 1. Press "Shift" button first, the red LED on. 2. Press "Lux off" button, the "Lux Off" function will be deactivated. The lights will not turn off even when the ambient lux level exceeds the target lux level but will dim down the brightness to the stand-by time level. For Sensor LED indicator references: 1. Fast flash 1s, "Lux off" function activated.		
Exp 1 Exp 2	2.Remains on 2s, "Lux off" function deactivated. "Exp" refer to Expansion, these two buttons are reserved functions and pending future development.		
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Additional Information / Documents

1. Regarding precautions for PIR sensor installation and operation, please kindly refer to
www.hytronik.com/download →knowledge →PIR Sensors - Precautions for Product Installation and Operation

2. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download→knowledge →Hytronik Standard Guarantee Policy