Installation and Instruction Manual

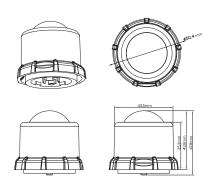


IP65 DALI-2 PIR Zhaga Book 18 Standard Motion Sensor DALI-2 Broadcast Output, High-Bay

HIR15

1. Technical Specifications Operating voltage 24VDC Stand-by power <0.5W I guaranteed: 30mA Output Imax: 50 mA U rated: 16VDC Sensor principle Max installation height: 15m (forklift) 12m (person) Detection range* Max diameter(Ø): 24m (forklift) 20m (person) 360 Detection angle 0-1000Lux Lux range 10% / 50% / 75% / 100% Sensitivity Operation temperature Ta: -20°C ~ +50°C Storage temperature -25°C ~ +70°C Relative humidity 10 ~ 90% IP rating **I**P65 Class II Insulation

2. Mechanical Structure & Dimensions



3. Wiring Diagram

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- . The total current on the DALI bus must not exceed 250mA.
- When using D4i drivers, if the total current exceeds this limit, a third-party DALI controller can shut down the DALI bus power supply via command.
- · Multiple master devices should not be connected in parallel.
- . Terminal block 4 is left unpopulated by default. No wiring required.

Wiring Diagram 1 Wiring Diagram 2 -----Standard Driver with External AUX Power D4i Driver with Common Negative LED-LED Driver DA+ DA-(GND) GND [GND AUX.24V HIR15 HIR15 Wiring Diagram 3 D4i Driver with Isolated Negative ----This product should be installed by a qualified electrician. LED+ DC+ GND_

HIR15

4. Detection Range

*The sensor detection area shown in this table is relevant for an empty space.

In areas with hard surfaces such as metal racking and/or glass corridors then the detection range can be extended from these internal reflections by up to 30%.

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.

A: Tangential movement	B: Radial movement	Mount height	Tangential Movement (A)	Radial Movement (B)
h = max.12m	h = max.12m	3m	max 50m ² (Ø = 8m)	max 7m² (Ø = 3m)
		5m	max 79m² (Ø = 10m)	max 7m ² (Ø = 3m)
		8m	max 154m² (Ø = 14m)	max 13m² (Ø = 4m)
insensitive sensitive	insensitive sensitive	12m	max 314m ² (Ø = 20m)	max 13m ² (Ø = 4m)

The data above is tested under following conditions:

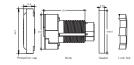
- · Forklift driving at a speed of 15km/h;
- · Sensor not connected to any driver that may have soff on period;
- Testing temperature Ta = 20°C;

A: Tangential movement	B: Radial movement	Mount height	Tangential (A)	Radial (B)
h = max.15m	h = max 15m	10m	max 380m² (Ø = 22m)	max 201m ² (Ø = 16m)
		11m	max 452m² (Ø = 24m)	max 201m ² (Ø = 16m)
		12m	max 452m² (Ø = 24m)	max 201m ² (Ø = 16m)
		13m	max 452m ² (Ø = 24m)	max 177m ² (Ø = 15m)
		14m	max 452m ² (Ø = 24m)	max 133m² (Ø = 13m)
insensitive sensitive	insensitive sensitive	15m	max 452m ² (Ø = 24m)	max 113m² (Ø = 12m)

5. Optional Accessories

Zhaga Book 18 standard interface (HA18SKT)





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

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.

Shielding Accessory (HAS15 included in the package.)







Installation Instruction



Step 1: Installation

Align the HAS15 cover with the HIR15 series sensor and press down evenly with two fingers. Once an audible sound is heard, the cover is securely installed.

Step 2: Removal

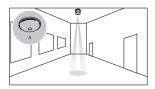
To detach the HAS15 cover, locate the release notch on the edge. Gently lift the cover upward from the notch to remove it.

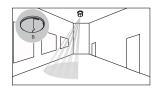
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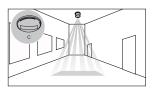


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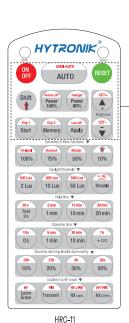
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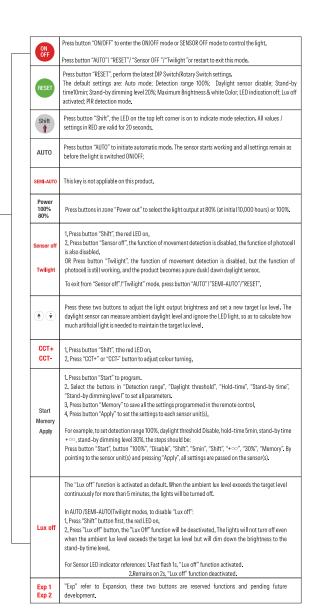






6. Settings (Remote Control HRC-11)





Maste sensors in the same DALI line will perform daylight harvesting/tri-level control based on the lux HYTRONIK reading from this "master" sensor's daylight sensor. Daylight threshold ress buttons in zone "Daylight threshold" to set daylight sensor at 2Lux/10Lux / 50Lux / 100Lux / 300Lux/500Lux / Disable 50 Lux 500 Note: To set daylight sensor at 100Lux / 300Lux/500Lux, press "Shift" button first. Power 100% 1. Press button "Shift", the red LED on. E 🐠 2. Press button "Ambient", the surrounding lux level is sampled and set as daylight threshold / target Lux level. Start Memory Apply Sensitylv_& More functions. ▼ Hold-time mode 100% 75% 50% In AUTO /SEMI-AUTO modes, press buttons in zone "hold-time" to set the hold-time at 2s / 30s / 1min / 5min / 10min Usylgit british (i) ¥ /15min / 20min / 30min. Note: 1. To set hold-time at 30s / 5min / 15min / 30min, press "Shift" button first. 1 min 5 mi 2 Lux 10 Lux 50 Lux Disable 10 min 15 r 2. 2s is for testing purpose only, stand-by period and daylight sensor settings are disabled in this mode. Hold-time ▼ 20 min 30 m *To exit from Test mode, press button "RESET" or any button in "Hold-time". Hold-time ▼

30 s 5 min 15 min 30 min Test 2s 1 min 10 min 20 min Stand-by time mode Stand-by time ▼

10s 5min 30min 1h Press buttons in zone "stand-by time" to set the stand-by period at 0s / 10s / 1min / 5min / 10min / 30min / 1h / + ... Note: 1 To set stand-by-time at 10s/5min / 30min / 1h. press "Shift" button first 1 min 5 mi 2, "0s" means on/off control: Stand-by driming level & Auto-config. ▼

24h 12h 4h 30s 0 min 30 n 3. "+00" means bi-level control, the fixture is 100% on when there is motion detected, and remains at the stand-by dimming level when no presence after motion hold-time. Only when the stand-by time is set in "+∞' 10% 20% 30% 50% and the ambient lux level is below the target lux level, the lux will auto-on. Dual lech & FF mode ▼

HF PIR HF+PIR HF/PIR Stand-by dimming level & Auto-config. Learn Fransmit RX 100% RX STBY% eress the button in zone "stand-by dimming level" to set the stand-by dimming level at 10% / 20% / 30% / 50%. HRC-11 1 Press button "Shift" the red LED on 24h 2. Select a time period and the sensor will do light level measurement and determine/save the lowest light level 12h (commission line) with 100% light on, so as to set the target lux level automatically. Note:1.Make sure the light level measurement covers the night time. 4h 2.The fixture will go into sensor mode after the measurement, all sensor setting remain unchanged. 30s Dual tech & RF mode Frase his key is not appliable on this product. Transmi his key is not appliable on this product. This key is not appliable on this product. HF+PIR HF/PIR 7. Additional Information / Documents 1. To learn more about detailed product features/functions, please kindly refer to

Sensitivity & More functions

1.Press button "Shift", the red LED on.

1 Press hutton "Shift" the red LED on

in AUTO /SEMI-AUTO modes, press buttons in zone "Detection range" to set detection range at 100%/75%/50%/10%.

2. Press buttons "Tri-level" or "Daylight harvest" to shift between Tri-level control mode and Daylight harvest mode.

2. Press button "Master" to select a DALI sensor in a DALI line to be a "master", so that all other DALI

100% 75%

Harves

- https://hytronik.com/product/hir15
- 2. Regarding precautions for PIR Sensors installation and operation, please kindly refer to https://hytronik.com/service/downloads (PIR Sensors Precautions for Product Installation and Operation)
- 3. Data sheet is subject to change without notice. Please always refer to the most recent release on https://hytronik.com/products/motion-daylight-sensors
- 4. Regarding Hytronik standard guarantee policy, please kindly refer to https://hytronik.com/service/downloads (Guarantee Conditions document)



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