

HRC-11

Sensor remote controller | Diverse function | White color



Benefits

- Compact: Lightweight, comfortable in hand
- Versatile: Supports diverse function settings
- Convenient: LED indicators aid command recognition

Applications

- Remote control application
- Easy commissioning for many sensors in project
- Offices, Classrooms, Industry

Check out the complete system solution on the website:

<https://www.hytronik.com>



Product Description

Sleekly designed remote control for Hytronik sensor family products. Lightweight and ergonomically crafted for easy handling, it offers a multitude of features including ON/OFF control, Tri-level & Daylight harvest, scene setting, hold-time, auto/semi-auto, modes, detection range...etc. A tailored solution for effortless control and customization of the entire Hytronik sensor family.

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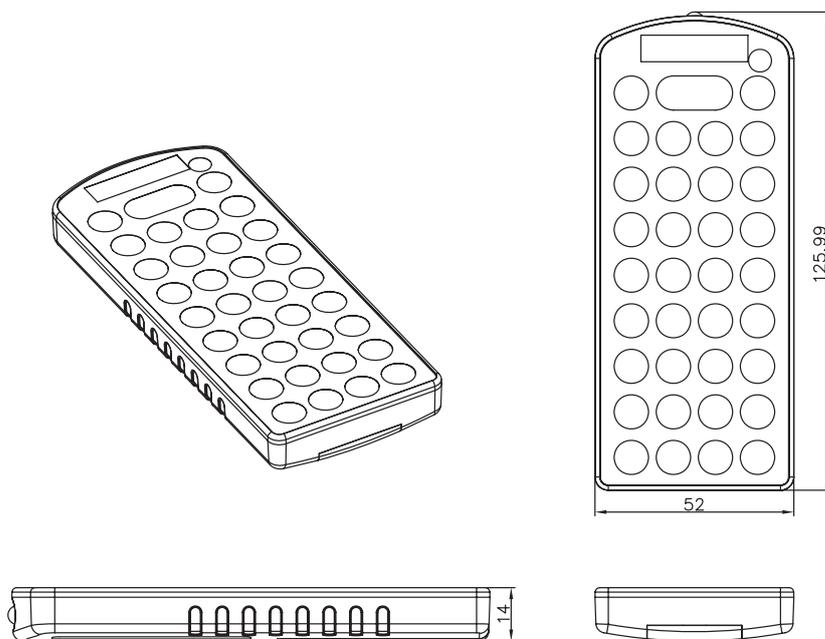
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Specifications

Operating voltage	3 VDC
Control distance	20m Max.
Signal type	Infrared (IR)
Working temperature	-20 ~ 50°C

Note: Infrared communication may be degraded under direct sunlight due to solar interference. The detection distance and effective control range are also dependent on the installation position and orientation of the sensor's IR receiver. Back-facing orientations may result in reduced performance.

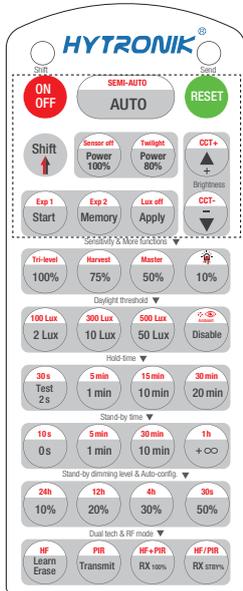
Technical Drawing



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Setting & Operate



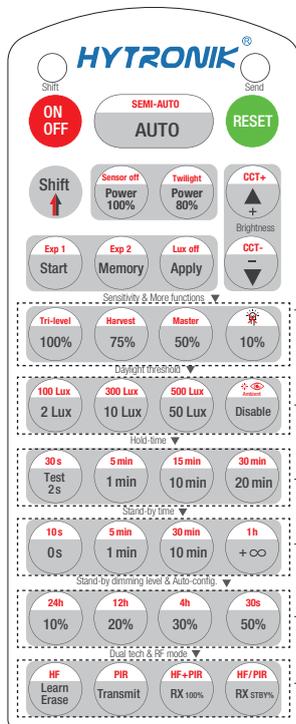
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	<p>Press button "ON/OFF" to select permanent ON or permanent OFF mode. * Press button "AUTO" / "RESET" to exit this mode.</p>
	<p>Press button "RESET", perform the latest DIP Switch/Rotary Switch settings. The default settings are: Auto mode; DALI Master mode; Detection range 100%; Hold-time 5min; Daylight sensor disable; Stand-by time 10min; Stand-by dimming level 20%; Maximum Brightness & Color turning; LED indication off; Lux off activated; HF/PIR detection mode.</p>
	<p>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.</p>
<p>AUTO</p>	<p>Press button "AUTO" to initiate automatic mode. The sensor starts working and all settings remain as before the light is switched ON/OFF;</p>
<p>SEMI-AUTO</p>	<p>1. Press button "Shift", the red LED on. 2. Press button "SEMI-AUTO" to initiate Semi-auto mode. The sensor is only activated with the manual press of push switch. To exit this mode, simply press button "AUTO". <i>For Sensor LED indicator references: Remains on 2s; initiate "Semi-auto" mode from "Auto" mode.</i></p>
<p>Power 100% 80%</p>	<p>Press buttons in zone "Power out" to select the light output at 80% (at initial 10,000 hours) or 100%.</p>
<p>Sensor off Twilight</p>	<p>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 function of photocell is still working, and the product becomes a pure dusk/ dawn daylight sensor. To exit from "Sensor off"/"Twilight" mode, press button "AUTO"/"SEMI-AUTO"/"RESET".</p>
	<p>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.</p>
<p>CCT+ CCT-</p>	<p>1. Press button "Shift", the red LED on. 2. Press "CCT+" or "CCT-" button to adjust colour turning.</p>
<p>Start Memory Apply</p>	<p>1. Press button "Start" to program. 2. Select the buttons in "Detection range", "Daylight threshold", "Hold-time", "Stand-by time", "Stand-by dimming level" to set all parameters. 3. Press button "Memory" to save all the settings programmed in the remote control. 4. Press button "Apply" to set the settings to each sensor unit(s). <i>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).</i></p>
<p>Lux off</p>	<p>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. <i>For Sensor LED indicator references: 1.Fast flash 1s, "Lux off" function activated. 2.Remains on 2s, "Lux off" function deactivated.</i></p>
<p>Exp 1 Exp 2</p>	<p>"Exp" refer to Expansion, these two buttons are reserved functions and pending future development.</p>

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Sensitivity & More functions	
100% 75% 50% 10%	In AUTO /SEMI-AUTO modes, press buttons in zone "Detection range" to set detection range at 100%/75%/50%/10%.
Tri-level Harvest	1.Press button "Shift", the red LED on. 2. Press buttons "Tri-level" or "Daylight harvest" to shift between Tri-level control mode and Daylight harvest mode.
Master	1.Press button "Shift", the red LED on. 2. Press button "Master" to select a DALI sensor in a DALI line to be a "master", so that all other DALI sensors in the same DALI line will perform daylight tri-level control based on the lux reading from this "master" sensor's daylight sensor.
Daylight threshold	
2 Lux 100 Lux 10 Lux 300 Lux 50 Lux 500 Lux Disable	Press buttons in zone "Daylight threshold" to set daylight sensor at 2Lux / 10Lux / 50Lux / 100Lux / 300Lux/500Lux / Disable. <i>Note: To set daylight sensor at 100Lux / 300Lux/500Lux, press "Shift" button first.</i>
	1. Press button "Shift", the red LED on. 2. Press button "Ambient", the surrounding lux level is sampled and set as daylight threshold / target Lux level.
Hold-time mode	
Test 2s 1 min 5 min 10 min 15 min 20 min 30 min	In AUTO /SEMI-AUTO modes, press buttons in zone "hold-time" to set the hold-time at 2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min. <i>Note: 1. To set hold-time at 30s / 5min / 15min / 30min, press "Shift" button first. 2. 2s is for testing purpose only, stand-by period and daylight sensor settings are disabled in this mode.</i> *To exit from Test mode, press button "RESET" or any button in "Hold-time".
Stand-by time mode	
0s 10s 1 min 5 min 10 min 30 min +∞ 1h	Press buttons in zone "stand-by time" to set the stand-by period at 0s / 10s / 1min / 5min / 10min / 30min / 1h / +∞. <i>Note: 1. To set stand-by-time at 10s / 5min / 30min / 1h, press "Shift" button first. 2. "0s" means on/off control; 3. "+∞" 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 "+∞" and the ambient lux level is below the target lux level, the lux will auto-on.</i>
Stand-by dimming level & Auto-config.	
10% 20% 30% 50%	Press the button in zone "stand-by dimming level" to set the stand-by dimming level at 10% / 20% / 30% / 50%.
24h 12h 4h 30s	1.Press button "Shift", the red LED on. 2.Select a time period and the sensor will do light level measurement and determine/save the lowest light level (commission line) with 100% light on, so as to set the target lux level automatically. <i>Note:1.Make sure the light level measurement covers the night time. 2.The fixture will go into sensor mode after the measurement, all sensor setting remain unchanged.</i>
Dual tech & RF mode	
Learn Erase Transmit	Short press "learn/erase" button to activate pairing mode, then press "transmit" on a primary mode and all the receiver modules will beep 3 times in 1s to indicate the success of pairing. Long press the "learn/erase" button for 3s will erase all the commands received previously.
RX 100% RX STBY%	Press button RX100%, the light on receiver unit is 100% upon receiving RF on signal; Press button "RX STBY%", the light(s) goes to pre-set stand-by dimming level directly.
HF PIR HF+PIR HF/PIR	1.Press button "Shift", the red LED on. 2. Choose one of the four detection mode "HF only", "PIR only", "HF& PIR" or "HF/PIR".