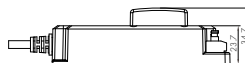
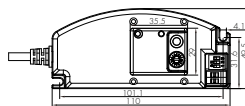
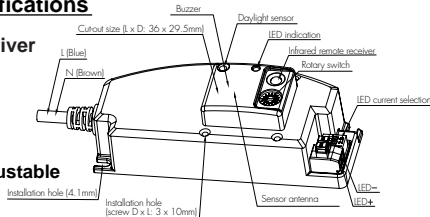


## Instruction Manual for Integrated SensorDIM LED Driver Daylight Monitoring Version, Model No.:HEC7028

### Technical Specifications

<b>PRODUCT TYPE:</b>	<b>Integrated sensorDIM LED driver</b>
<b>OPERATING VOLTAGE:</b>	<b>220-240VAC 50/60Hz</b>
<b>HF SYSTEM:</b>	<b>5.8GHz CW radar</b>
<b>TRANSMISSION POWER:</b>	<b>&lt;0.2mW</b>
<b>DETECTION ANGLE:</b>	<b>30°~150°</b>
<b>DETECTION RANGE:</b>	<b>Max. 8 meters in diameter, adjustable</b>
<b>TIME SETTING:</b>	<b>2s, 30s~30min.</b>
<b>DAYLIGHT SENSOR:</b>	<b>2~50Lux; disable</b>
<b>STAND-BY PERIOD:</b>	<b>0s, 10s ~ +∞</b>
<b>STAND-BY DIMMING LEVEL:</b>	<b>10% ~30%</b>
<b>MOUNTING:</b>	<b>Indoors, ceiling&amp;wall mounted</b>
<b>INSTALLATION HEIGHT:</b>	<b>≤5M</b>
<b>WORKING TEMP.:</b>	<b>-20~+50 C</b>



HEC7028



HRC-05

This is a smart integration of microwave motion sensor and multiple current selection LED driver, which gives pre-selected constant current to drive the LEDs to work based upon movement detection. Designed in the software and thanks to our worldwide patented circuit, the built-in daylight sensor is prior to motion sensor so as to achieve utmost energy saving purpose.

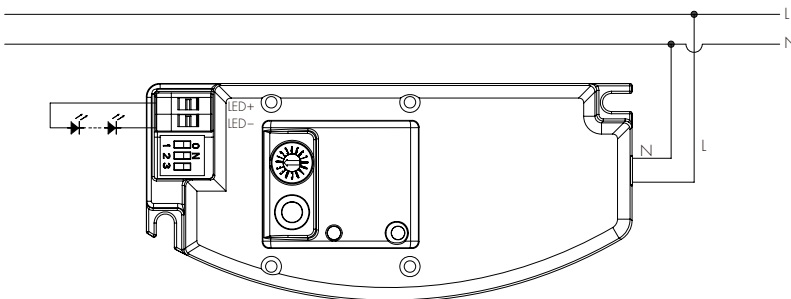
Note: the high-frequency output of this sensor is <0.2mW; approximately just 1‰ of the transmission power of a mobile telephone or the output of a microwave oven.

### IMPORTANT

PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION AND RETAIN THIS LEAFLET IN A KNOWN AND SAFE PLACE FOR FUTURE REFERENCE.

## SECTION 1 INSTALLATION AND WIRING

- 1.1 Ensure that the electricity supply is switched off before installing or servicing this product.
- 1.2 Wiring diagram



## SECTION 2 FUNCTION

### 2.1 LED Current Selections



The current can be easily configured by choosing the correct combination of the DIP switches (see table on the left).

### 2.2 LED Maximum Load and Voltage

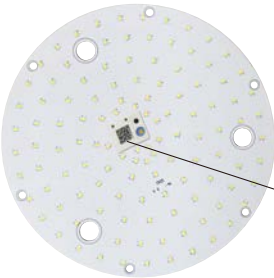
This multiple current LED driver has a wide range of loading capacity:

Maximum load @ different currents:	3.5~17W (350mA)	5~24W (500mA)	5.5~25W (550mA)
	7~28W (700mA)	7~28W (750mA)	9~28W (900mA)
Maximum voltage @ different currents:	10~48V (350mA)	10~48V (500mA)	10~46V (550mA)
	10~40V (700mA)	10~37V (750mA)	10~31V (900mA)

### 2.3 Settings (Rotary Switch on Sensor Antenna)

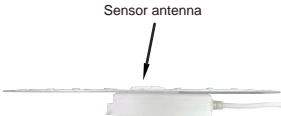
Channel	Detection range	Hold-time	Daylight sensor	Stand-by period	Stand-by dimming level
0	100%	5s	Disable	10s	10%
1	100%	30s	2Lux	1min	10%
2	100%	1min	2Lux	5min	10%
3	100%	1min	10Lux	10min	10%
4	100%	1min	Disable	+∞	10%
5	100%	5min	2Lux	10min	10%
6	100%	5min	10Lux	30min	10%
7	100%	5min	Disable	+∞	10%
8	100%	10min	2Lux	10min	10%
9	100%	10min	10Lux	30min	10%
A	100%	10min	Disable	+∞	10%
B	50%	10min	Disable	30min	10%
C	10%	10min	Disable	10min	10%
D	100%	30min	10Lux	30min	10%
E	100%	30min	Disable	+∞	10%
F	100%	5s	2Lux	10s	10%

### 2.4 Assembly



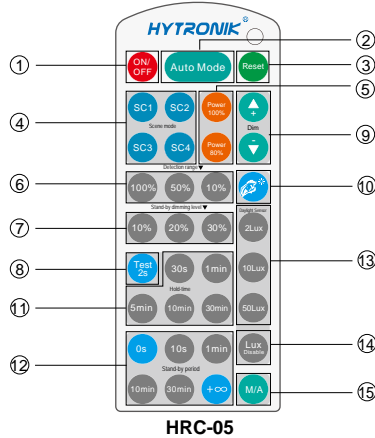
The sensor antenna features the rotary switch and protrudes the LED panel. This feature enables the end user to access the sensor settings without removing the gear tray / LED board.

Note: end-user can also scan the QR code on the housing for checking settings.



Cut-out size: 36 x 29.5 (mm)

## SECTION 3 REMOTE CONTROL



Note: the buzzer beeps one time when RC receives signal successfully

### Permanent ON/OFF [button ①]

1. Press button ①, the light goes to permanent ON or permanent OFF mode.
2. Press button ② ③ ④ to quit from this mode. (Please refer to explanation accordingly)

### Auto Mode [button ②]

Press button ② goes to auto mode, the sensor starts working and all settings remain the same as the latest status before the light was switched ON/OFF.

### RESET [button ③]

Press button ③, all settings go back to the value of rotary switch.

### Test 2s function [button ⑧]

1. Press button ⑧, the sensor goes to test mode (hold time 2s), stand-by period and daylight sensor are disabled.
2. Press button ③ ④ ① to quit from this mode, and the sensor setting is changed accordingly.

### Ambient daylight threshold [button ⑩]

Press button ⑩, the latest surrounding lux value overwrites previous lux value learend, and is set as the daylight threshold. This feature enables the fixture to function well in any real application circumstance.

### Power output [button ⑤]

Press button ⑤, the output shifts between 80% (at initial 10,000 hours) and 100%, for energy saving purpose.

### Dim +/- [button ⑨]

Press button ⑨ to adjust the light brightness between 10%~100% during hold-time. "+" means dimming up, "-" means dimming down.

### Lux disable [button ⑪]

Press button ⑪, the built-in daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is.

### M/A [button ⑮]

Note: this button is disabled.

### Detection range [zone ⑥]

Press buttons in zone ⑥ to set detection range at 100% / 50% / 10%.

### Hold time [zone ⑪]

Press buttons in zone ⑪ to set hold time at 30s / 1min / 5min / 10min / 30min.

### Stand-by period [zone ⑫]

Press buttons in zone ⑫ to set stand-by period at 0s / 10s / 1min / 10min / 30min / +∞.

Note: "0s" means on/off control; "+∞" means bi-level of dimming control, light never switches off.

### Stand-by dimming level [zone ⑦]

Press buttons in zone ⑦ to set the stand-by dimming level at 10% / 20% / 30% .

### Daylight sensor [zone ⑬]

Press buttons in zone ⑬ to set daylight sensor at 2lux / 10lux / 50lux.

**Scene mode options [ zone ④]**

There are 4 scene modes built-in the remote control for different applications:

Scene options	Detection range	Hold time	Stand-by period	Stand-by dimming leve	Daylight sensor
SC1	100%	1min	10min	10%	2Lux
SC2	100%	5min	10min	10%	2Lux
SC3	100%	10min	30min	10%	10Lux
SC4	100%	10min	+ ∞	10%	50Lux

Note: end-user can adjust the settings by pressing buttons of detection range ⑥ / hold time ⑬ / stand-by period ⑫ / stand-by dimming level ⑦ / daylight sensor ⑬, the last setting stays in validity.

**SECTION 4 TROUBLE SHOOTING**

MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY
The load will not work	Incorrect light-control setting selected	Adjust setting
	Load faulty	Replace load
	Mains switch OFF	Switch ON
The load is always on	Continuous movement in the detection zone	Check zone setting
The load is on without any identifiable movement	The sensor is not mounted for reliably detecting movement	Securely mount enclosure
	Movement occurred, but not identified by the sensor (movement behind wall, movement of small object in immediate lamp vicinity etc.)	Check zone setting
The load will not work despite movement	Rapid movements are being suppressed to minimise malfunctioning or the detection radius is too small	Check zone setting