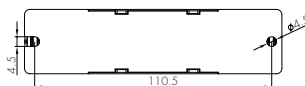
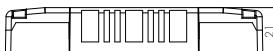
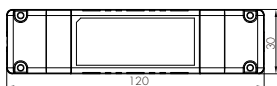
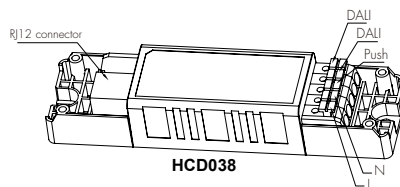
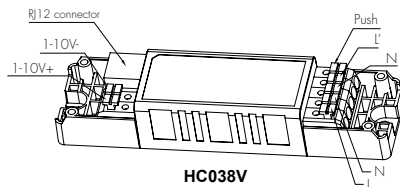


INSTRUCTION MANUAL FOR DETACHED LINEAR SENSOR TRI-LEVEL CONTROL VERSION, MODEL NO.:HC038V / HCD038 + SAM7 / HIR02

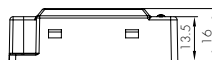
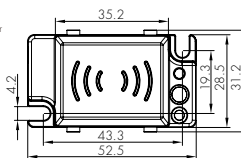
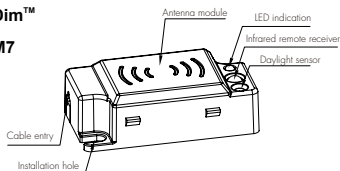
Technical Specifications

PRODUCT TYPE:	HF Sensor / PIR Sensor
OPERATING VOLTAGE:	220-240VAC 50Hz/60Hz
HF SYSTEM:	5.8GHz CW radar (for SAM7)
RATED LOAD (for HC038V):	400W (capacitive load)
OUTPUT (for HCD038):	Max. 15 devices, Max. 30mA
DETECTION ANGLE:	30° ~ 150° (for SAM7) 360° (for HIR02)
POWER CONSUMPTION:	<1W
DETECTION RANGE (DxH):	Max. 12 x 6m(for SAM7) Max. 6 x 5m(for HIR02)
HOLD TIME:	30s ~ 30min.
DAYLIGHT SENSOR:	2 ~ 50Lux; disable
STAND-BY PERIOD:	0s, 10s ~ 30min, +∞
STAND-BY DIMMING LEVEL:	10% ~30%
MOUNTING:	Indoors, ceiling & wall mounted
WORKING TEMP.:	-20 ~ +60°C



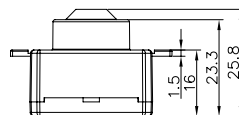
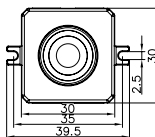
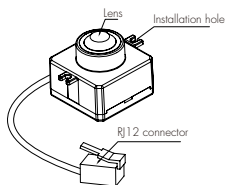
HF sensorDim™

Model: SAM7



PIR Sensor Head

Model: HIR02



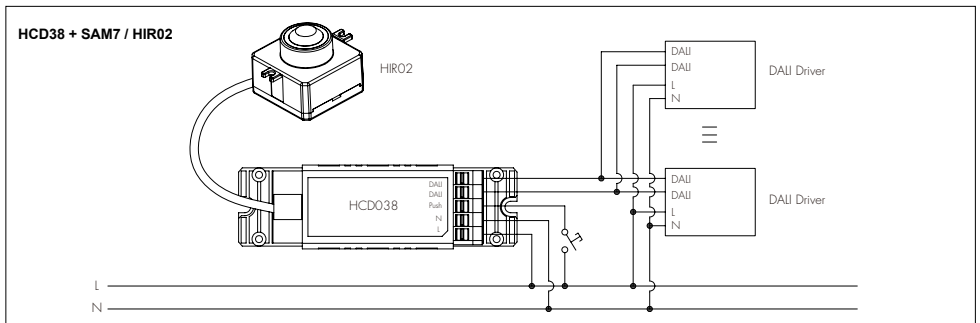
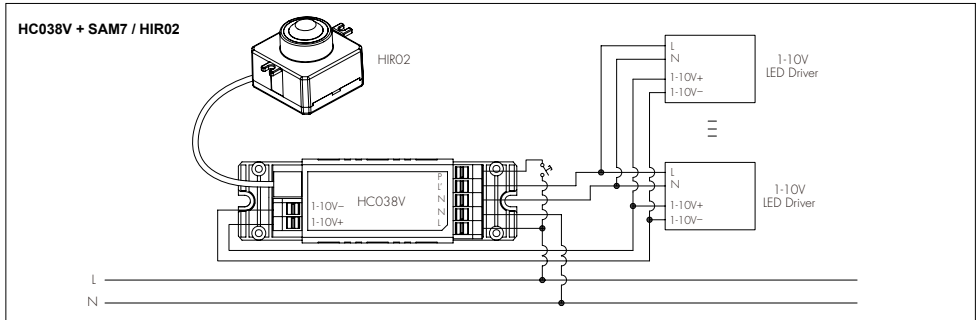
IMPORTANT

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

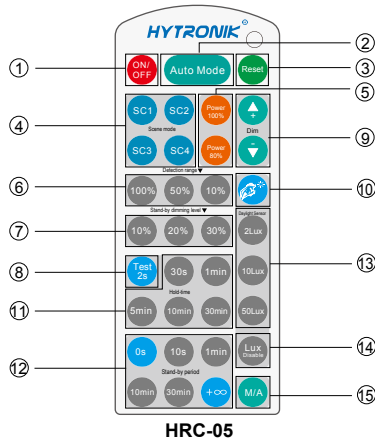
SECTION 1 INSTALLATION AND WIRING

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

1.2 Wiring diagram



SECTION 2 REMOTE CONTROL



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

Permanent ON/OFF [button ①]

- Press button ①, to select permanent ON or permanent OFF mode.
- Press button ② ③ ④ to resume automatic operation. (Please refer to explanation below)

Auto Mode [button ②]

Press button ② to initiate automatic mode. The sensor starts working and all settings remain as before the light was switched ON/OFF.

RESET [button ③]

Press button ③, all settings go back to default settings:

Detection range	Hold time	Stand-by period	Stand-by dimming level	Daylight sensor
100%	5min	10min	10%	disable

Test 2s function [button ⑧]

1.Press button ⑧,the sensor goes into test mode (hold time2s). N.B. the stand-by period and daylight sensor settings are disabled in test mode.
2.Press button ③④① to exit from this mode, and the sensor settings are changed accordingly.

Ambient daylight threshold [button ⑩]

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

Power output [button ⑤]

Press button ⑤, the output shifts between 80% and 100%, for energy saving purposes.

Dim +/- [button ⑨]

Press button ⑨ to adjust the light brightness between 10%~100% during hold-time."+" increases the light level, "-" will decrease the light level.

Lux disable [button ⑭]

Press button ⑭, the built-in daylight sensor is disabled, the light will always operate upon detection regardless of ambient light level.

Manual override/ Semi-auto [button ⑨]

Press button ⑨,the sensor goes to manual override or semi-auto function.

Note: The buzzer beeps twice if it is in manual override mode, and beeps once if shifts to semi-auto mode.

Detection range [zone ⑥]

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

Hold time [zone ⑦]

Press buttons in zone ⑦ to set hold time at 30s / 1min / 5min / 10min / 30min.

Stand-by period [zone ②]

Press buttons in zone ② to set the stand-by period at 0s / 10s / 1min / 10min / 30min / +∞.

Note: "0s" means on/off control; "+∞" means bi-level of dimming control, the light will never switch off.
(i.e. the light remains at the stand-by dimming level until motion is detected.)

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 into 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: the end-user can fine tune the settings by pressing buttons of detection range ⑥ / hold time ⑦/ stand-by period ② / stand-by dimming level ⑦ / daylight sensor ⑬, the last setting will over-write that feature of the pre-set scene.

SECTION 4 FUNCTION

4.1 Daylight Monitoring Function (for SAM7)

Hytronik specially designed this function in software for deep energy-saving purpose. A built-in daylight sensor is designed to provide "smart photocell" function. This function can only be activated when stand-by period is set to "+∞". In this mode the lamp will automatically illuminate at the dim level setting when the natural light goes below the threshold setting. The fixture will also switch off as the natural light returns.

4.2 Manual Override

This sensor maybe over-riden by the end-users to switch on/off the lights manually, or adjust the maximum brightness during motion hold-time with the push-switch. This makes the product more user-friendly and offers more options to fit for extra-ordinary demands.

* Short push (<1s): on/off function;

ON → OFF: the light turns off immediately and cannot be lighten for a certain time (equals to hold time preset) even there is movement is detected. After this period, the sensor goes back to auto sensor mode.

OFF → ON: the light turns on 100% and goes to auto sensor mode, even when ambient Lux level exceeds the daylight threshold.

* Long push (>1s): adjust the maximum brightness (between 10% and 100%) during hold-time. Both the settings on DIP switch and manual override can overwrite each other, the latest action controls.

* If no end-user adjustment is desired, simply leave this terminal disconnected.

4.3 Loop-in and Loop-out Terminal (HC038V)

Double L N terminal makes it easy for wire loop-in and loop-out, and saves the cost of terminal block and assembly time.

SECTION 5 TROUBLE SHOOTING

MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY
The light will not come on	Incorrect light-control setting selected	Adjust daylight threshold setting
	Faulty lamp	Replace lamp
	No power supply	Check power to sensor
The lamp is always on	Continuous movement in the detection zone	Check detection area setting
The lamp 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.)	1. Reduce sensitivity. 2. Check the movement behind walls to avoid facilities such as water pipe, fan, which may mis-trigger the sensor.
The lamp will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection radius is too small.	Check detection area setting