

TECHNICAL SPECIFICATIONS

PRODUCT TYPE: OPERATING VOLTAGE: HF SYSTEM: RATED LOAD: (capacitive load) DETECTION ANGLE: POWER CONSUMPTION: DETECTION RANGE (DxH): TIME SETTING: DAYLIGHT SENSOR: STAND-BY PERIOD:	Max. 12 x 6m (SAM5) Max. 16 x 15m (SAM6) s 5s, 30s~30min. 2~50Lux; disable 0s, 10s ~ 1h, +∞	Adjustable detection area Hold-time Daylight threshold tand-by period Stand-by dimming level Sensor antenna interface 1-10V	ABOVE ALL [®] Mut Model Mut Mode
STAND-BY DIMMING LEVEL MOUNTING: WORKING TEMP.:	: 10% ~ 50% Indoors, ceiling&wall mou -20°C ~ +60°C	Inted AMS-H403VF	ARC-H05

The sensor is an active motion detector; it emits a high-frequency electro-magnetic wave at 5.8GHz and receives its echo. The sensor detects the change in echo from movement in its detection zone. A microprocessor then triggers the switch light ON command. Detection is possible through doors, panes of glass and thin walls.

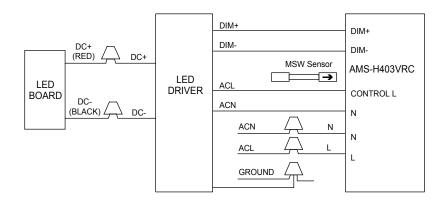
Note: the high-frequency output of this sensor is <0.2mW; approximately just 0.2‰ of the transmission power of a mobile telephone.



INSTALLATION AND WIRING

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

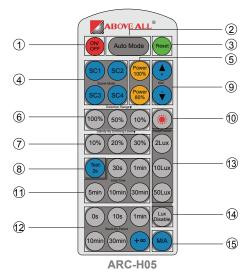
1.2 Wiring diagram



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REMOTE CONTROL



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

Permanent ON/OFF [button ①]

1. Press button (1), to select permanent ON or permanent OFF mode.

2. Press button 2 3 4 to resume automatic operation. (Please refer to explanation below)

Auto Mode [button 2]

Press button 2 to in 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 the value of DIP switch settings.

Test 2s function [button 8]

1.Press button (), the sensor goes into testmode (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 (0, 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 () to adjust the light brightness between 10%~100% during hold-time."+" increases the light level. "-" will decrease the light level.

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

M/A [button (5]

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 ff]

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

Stand-by period [zone (2]

Press buttons in zone 12 to set the stand-by period at 0s / 10s / 1min / 10min / 30min / +... Note: "0s" means on/off control; "+o" means bi-leve 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 (3]

Press buttons in zone (1) 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 (1) / stand-by period (2) / stand-by dimming level (2) / daylight sensor (3), the last setting will over-write that feature of the pre-set scene.

MICROWARE MOTION SENSOR SETTINGS

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

· Factory setting: I – 100%

2 Hold-time

Hold-time means the time period to keep the lamp on 100%, after all motion has ceased (detection area vacated).

· Factory setting: V – 10min

Oaylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.

· Factory setting: I – Disable

Stand-by period (tri-level control)

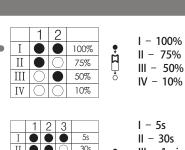
This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

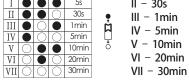
· Factory setting: V – 10min

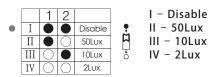
6 Stand-by dimming level

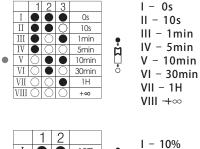
This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

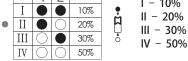
• Factory setting: II – 20%













FUNCTION

4.1 Zero-cross Relay Operation

Designed in the software, the sensor switches on/off the load right at the zero-cross point, to ensure the in-rush current is minimised, enabling the maximum life-time of the relay.

4.2 Daylight Monitoring Function

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.

4.3 Loop-in and Loop-out Terminal

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.)	 Reduce sensitivity. 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	