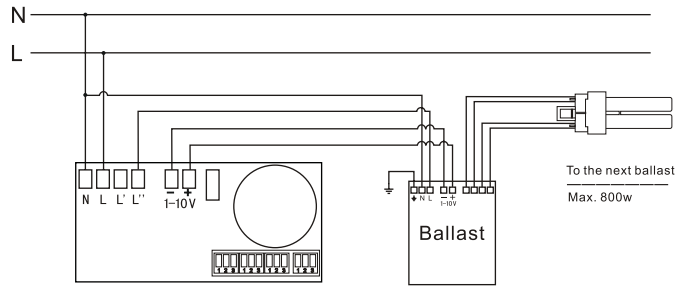


C: dimming function with ordinary 1-10v dimmable ballast--

This dimming functions works with any ordinary 1-10v analogue dimming ballast, including plug-in fluorescent lamps, T5, T8, and HID lamps.

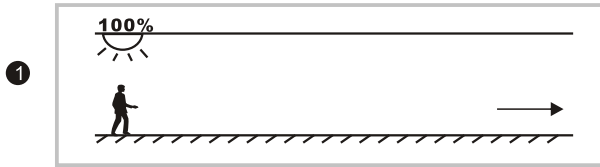
max. Load (inductive load)--

HC003V: 800w HC403V: 800w at 120v;
 1200w at 277v.

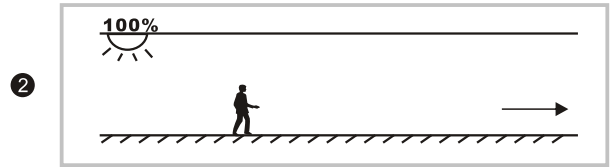


2: corridor function--

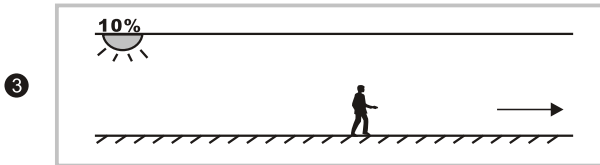
Same function as Tridonic Excel ballast, HYTRONIK has built in the corridor function inside the motion sensor instead...



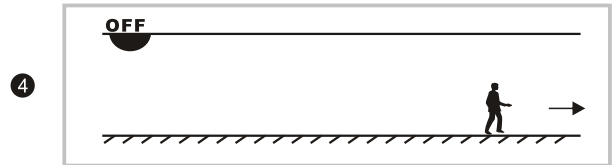
Movement of people activates the lamp.



Lamp is still on at 100% during the hold time.



Lamp is dimmed to 10% after holdtime, system goes to "stand-by period"

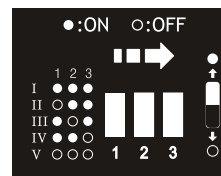


Lamp is switched off after the "stand-by period"

3: sensor setup--

Detection area, motion holdtime, daylight threshold, stand-by period, and stand-by brightness can all be precisely setup on the DIP switches.....

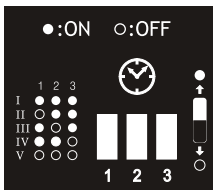
a) Detection range: (100% / 75% / 50% / 30% / 10%)



Recommendation

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	○	○	●	50%
IV	○	○	○	30%
V	○	○	○	10%

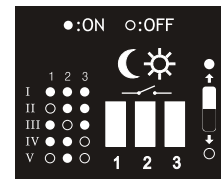
b) Motion hold time: (5s/30s/1min /5min /10min)



Recommendation

	1	2	3	
I	●	●	●	5s
II	○	●	●	30s
III	○	○	●	1min.
IV	○	○	○	5min.
V	○	○	○	10min

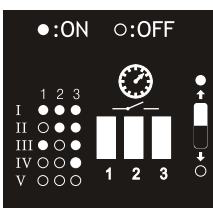
c) Daylight sensor threshold: 200Lux/100Lx/50Lux/20ux/5Lux)



Recommendation

	1	2	3	
I	●	●	●	200Lux
II	○	●	●	100Lux
III	○	○	●	50Lux
IV	○	○	○	20Lux
V	○	○	○	5Lux

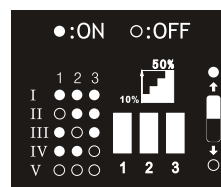
d) Standby time: (disable/1h/30min/10min/1min)



Recommendation

	1	2	3	
I	●	●	●	Disable
II	○	●	●	1h
III	○	○	●	30min
IV	○	○	○	10min
V	○	○	○	1min

e) Standby dimming level: (1-10v DC signal 5V / 4V / 3V/ 2V/ 1.4V)



Recommendation

	1	2	3	1-10V DC signal	Brightness
I	●	●	●	5V	45-50%
II	○	●	●	4V	35-40%
III	○	○	●	3V	25-30%
IV	○	○	○	2V	15-20%
V	○	○	○	1.4V	5-10%

4. RF transmission:

The motion signal from 1 sensor (the master sensor) can be transmitted to and trigger on other sensors (the slave unit) by RF transmission. This wireless radio wave transmission can reach 50 meters in open area.

5. RF grouping (max. 15 channels):

- A. Put the DIP switch to the **SET UP** mode on both the master unit and slave unit.

Switching on for operation mode and switching off for RF teach & learn mode.

- B. Press **LEARN** button on the receiving unit, the sensors goes into 180s of teach-and-learn period, in which electrician have enough time to go back to master unit to release transmission.

- C. Press the **SEND** button on the master unit to send RF signal, the green LED on the master unit is then on to indicate the success of transmission.

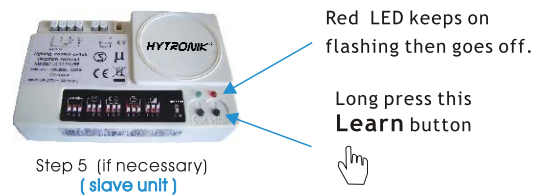
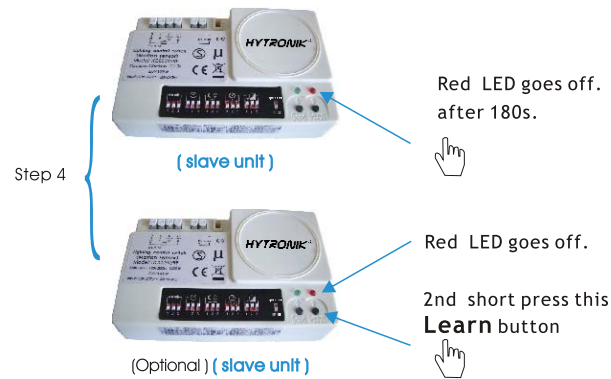
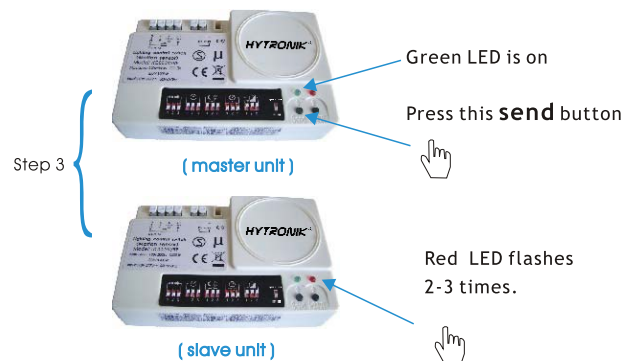
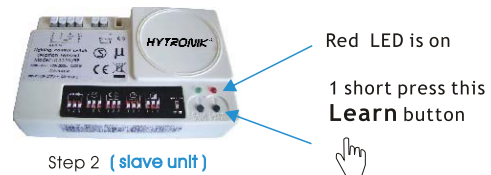
Upon receiving the transmission signal, the red LED on receiving unit will flash 2-3 times, which is the indication of successful teach-and-learn.

- D. Wait for 180s period ellapes, the red LED on receiving unit goes off. The whole teach-and-learn process is completed. Or--

Short press the **Learn** button again within the 180s period to finish the whole teach-and-learn process.

- E. A long press on **Learn** button (about 10s) resets and clears all previous commands it has received, the red LED keeps on flashing and then goes off in the end to indicate the success of this reset and erase of all the previous groupings.

- F. put the DIP switch on the **OPERATION** mode after grouping. the sensor is now ready for work.



For comfort and efficient of installation, it is highly recommended to finish the grouping work at 1 place in 1 effort before the fixtures are separately installed in different locations.

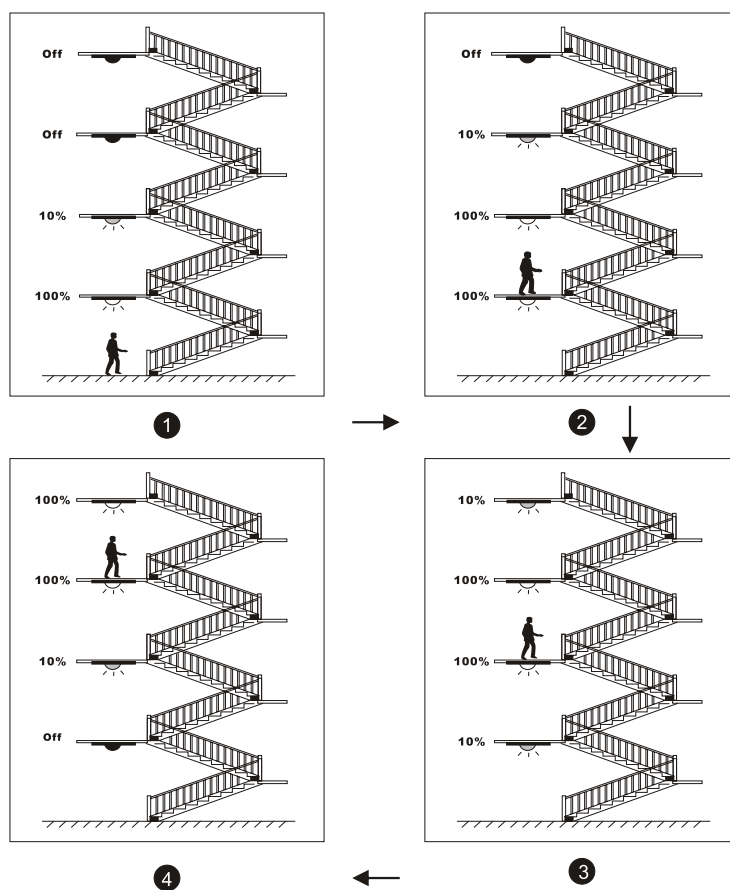
6. typical application--

This motion detection in combination with R F feature is an ideal choice for automatic lighting application in the stairwell--

When the first sensor detects motion, it passes on the signal to other members in the group by R F transmission and receiving. So that the lighting ahead can be switched on to 10-50% stand-by status.

In this application--




- detection area--100%
- motion holdtime--30 s
- daylight threshold-- 50 lux
- stand-by brightness--10%
- stand-by period--60s.
- Dimmable ballast-- 1-10v ballast, or sensorDIM ballast.



Technical Data

Operating voltage:	HC003V / RF--220-240v ; HC403V / RF--120-277v
Switched power:	HC003V / RF--800w ; HC403V / RF--800w/120v, 1200W/277v.
Coding	Keeloq rolling code (tech/learn/reset/memory)
Detection area	10 / 30 / 50 / 75 / 100% , can be customized
Hold time	5s/30s/1min/5min/10min , can be customized
Daylight threshold	2--500 lux daylight / twilight / darkness , can be customized
RF. Communicatin Chanel	15 channels for grouping
Microwave frequency	5.8 GHz +/- 75 MHz
Microwave power	<1mw
Detection range	Max. (∅ x H): 16m x 20m
Detection angle	10--150°
RF. Transmission distance	50 meters in open area
Mounting height:	0.5--10m.
Operating temperature:	-20℃ ~ +70℃
Detection area	433 MHz

Compliance and Marking

EU directives:	Standards:	Safety certification
Nr. 1999/5/EC	IEC61000-4-2 IEC61000-3-2	  
Nr. 2004/108/EC	IEC61000-4-3 IEC61000-3-3	
Nr. 73/23/EEC	IEC61000-4-4 EN60669-2-1	
Nr. 2002/95/EC	IEC61000-4-5 EN60669-1	
	IEC61000-4-6 CISPR 14	
	IEC61000-4-8 CISPR 15	
	IEC61000-4-11	