Fidelux

MSLINK Series Linkable Sensor with RF Wireless Transmission Control

This is a combination of motion sensor and RF radio wave wireless transmission, which is perfect solution for retrofit projects. The motion detected by 1 sensor (the transmitter unit) can pass onto other pre-defined individuals (the receiver units) though RF transmission. The transmitter can trigger unlimited number of receivers as long as within the transmission range (30 meters indoor and 100 meters in the open area). With fixed address code technology, it's easy to set up transmission groups. Up to 16 different groups can be created. Optional transmission frequency of 915/315 MHz, thanks to FSK technology. Easy installation and free of wiring!



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RF Receiver HC424RF (MSLINK-R) *receiver, dimming control <u>Rotary coding switch</u> <u>Standby period</u> <u>Standby dimming level</u> <u>Introl (mm)</u> <u>T1.5</u> <u>87</u> <u>71.5</u> <u>87</u> <u>71.5</u> <u>87</u> <u>71.5</u> <u>87</u> <u>71.5</u> <u>71.5</u> <u>87</u> <u>71.5</u> <u>7</u>

Typical Applications

For staircase (HC428V/RF serves as both transmitter & receiver)



- 1. The 1st floor sensor detects motion, its fixture turns on FULL and sends RF signal to 2nd floor sensor and any others programmed to be in the same group. The 2nd floor fixture turns on full or to dim level programmed, as does each fixture in group. The group should contain enough fixtures to provide safe lighting levels, perception of safety and elimination of undesirable tunnel effects.
- 2. As occupant moves to 2nd floor, this sensor detects motion and turns its fixture on full and sends RF signal to each sensor in group. The first floor sensor's programmed timer starts while no motion is being detected. Through remote programming, each fixture provides only as much light as is needed.
- 3. With occupant on 3rd floor, this sensor detects motion and sends RF signal to a different grouping of sensors to turn on their fixtures on floors above and below. Meanwhile, the 1st floor sensor goes into programmed dim mode after the hold-times out and stand-by timer starts to count.
- 4. This propagation continues with new groupings as occupant moves to 4th floor and this sensor detects motion. Meanwhile, the 1st floor sensor's stand-by timer times out it will turn off the light. 2nd floor's sensor goes into programmed dim mode.

Note: by selecting the brightness DIP switch, the receiver can either turn the light 100% on or dim the light to stand-by dimming level up receiving the RF signal from the transmitter.





RF Grouping (maximum 16 channels)

Using a screwdriver to adjust the rotary switch on both the transmitter unit (transmitter) and receiving unit (receiver), and keep them pointing at the same channel, the grouping is automatically completed. 16 channels (maximum 16 groups) available for both the transmitter & receiver unit.

Note: RX1 and RX2 receive two different RF signals from two different transmitters.



For staircase & corridor (HC428V/RF serves as both transmitter & receiver, HC424RF as receiver)



While the 1st sensor detects motion on the 1st floor, it switches the light on 100% and sends signal to all receiver units. All HC424RF on the 1st floor turn on 100% and the HC428V/RF on the 2nd floor goes to stand-by level.



When walks to the 3rd floor, the 3rd HC428V/RF switches the light on 100%. All HC424RF on the 3rd floor turn the light on 100% and the HC428V/RF on the 4th floor goes to stand-by level. Meanwhile, the lights on the 1st floor as dimmed to stand-by level after hold-time.



The person walks to the 2nd floor, the 2nd HC428V/RF switches the light on 100%. All HC424RF on the 2nd floor turn the light on 100% and the HC428V/RF on the 3rd floor goes to stand-by level.



The person walks to the 4th floor, the 4th HC428V/RF switches the light on 100%. All HC424RF on the 4th floor turn the light on 100% and the next HC428V/RF goes to stand-by level. Meanwhile all sensors on the 1st floor turn the light off after stand-by period, and all lights on the 2nd floor dim to stand-by level after hold-time.

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Wiring Diagram



Note: this 1-10V output on the transmitter unit HC428V/RF is isolated, SELV output.

RF Grouping (maximum 16 channels)

Using a screwdriver to adjust the rotary switch on both the tranmiter unit (transmitter) and receiving unit (receiver), and keep them pointing at the same channel, the grouping is automatically completed. 16 channels (maximum 16 groups) available for both the transmitter & receiver unit.



For carpark (HC418V/RF as transmitter and HC424RF as receiver)





With insufficient natural light, the sensor is triggered by motion, the transmitter switches on the light and send RF ON signal to all salves.







After the hold-time, the whole group of lamps dim to pre-defined dimming level when no movement is detected.



The whole group of lamps switch off automatically after the stand-by period. Note: even in case the receiver fails to receive the off signal from the transmitter, it will also switch the light off automatically after a 30min time delay.

Wiring Diagram



RF Grouping (maximum 16 channels)

Using a screwdriver to adjust the rotary switch on both the tranmiter unit (transmitter) and receiving unit (receiver), and keep them pointing at the same channel, the grouping is automatically completed. 16 channels (maximum 16 groups) available for both the transmitter & receiver unit.



Using a screwdriver to point the arrow to the same channel on both transmitter and receiver.

