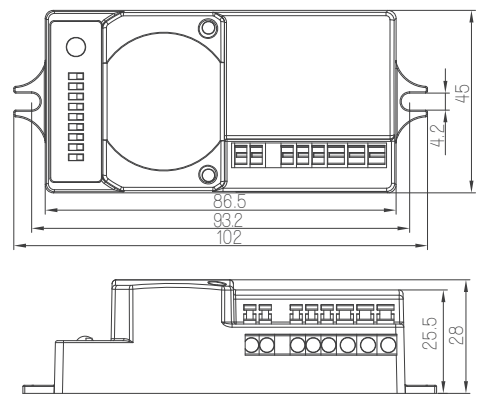
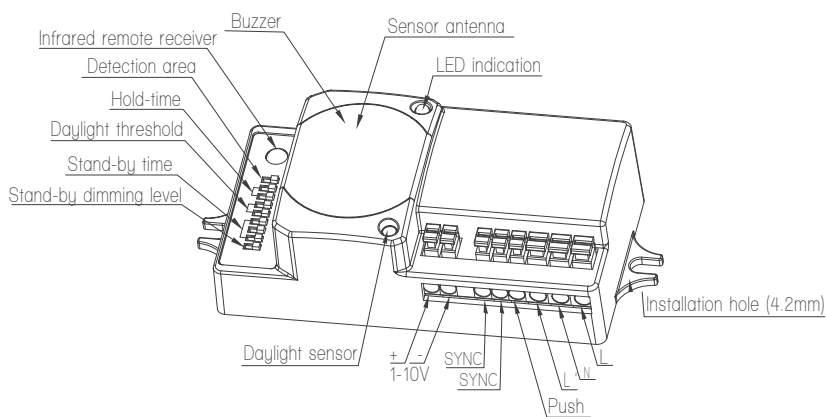


Dimmable Detector High Bay Version

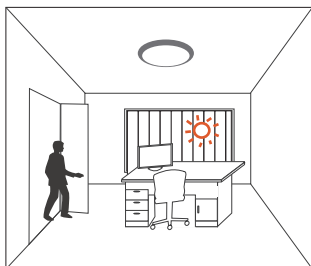
Model: UM03RC



Product Feature

Step-dim function

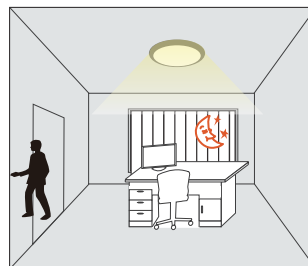
The motion detector can turn on the light based on movement. With this detector built in, light is automatically on when needed and dimmed to preset level before it is totally off.



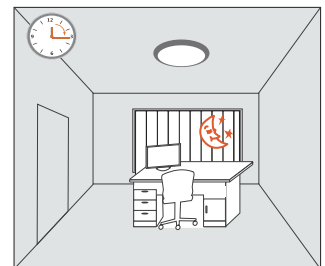
The light keeps off during daytime even when movement is detected. (Ambient lux level is above preset daylight threshold)



With movement and insufficient ambient lux level, the light is triggered on by dimming the detector.



If there is no more movement, the light dims to stand-by dimming level after hold-time.



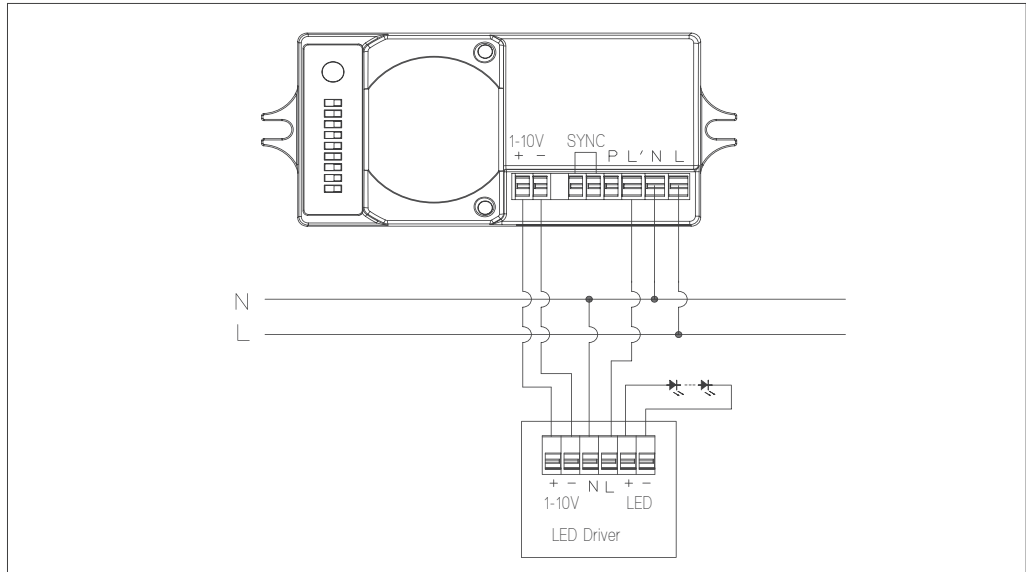
The light turns off automatically after stand-by time.

Function

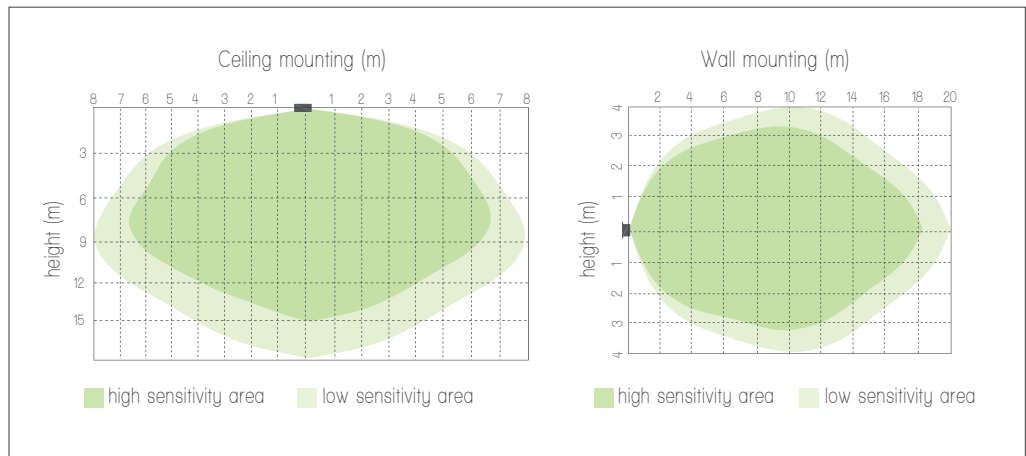
Zero-cross relay operation

To protect the relay against the inrush current, control software switches AC load right at the zero-cross points when minimal current flows across the relay.

Wiring



Detection pattern



Settings

1. Sensitivity

Sensitivity can be adjusted by selecting the combination on the DIP switches to fit precisely for each specific application.

- I - 100%
- III - 50%

| | | |
|---|---|------|
| ● | 1 | |
| ● | ● | 100% |
| ○ | ○ | 50% |

2. Hold-time

Hold-time refers to the time period that the light remains 100% on if no more movement is detected.


- I - 5s
- II - 3min
- III - 10min
- IV - 30min

| | | | |
|-----|---|---|-------|
| | 2 | 3 | |
| I | ● | ● | 5s |
| II | ● | ○ | 3min |
| III | ○ | ● | 10min |
| IV | ○ | ○ | 30min |

3. Daylight threshold

Different daylight threshold can be preset on DIP switches. Light will always turn on upon movement if daylight sensor is disabled.

- I - Disable
- II - 50Lux
- III - 10Lux
- IV - 2Lux




| | 4 | 5 | |
|-----|---|---|---------|
| I | ● | ● | Disable |
| II | ● | ○ | 50Lux |
| III | ○ | ● | 10Lux |
| IV | ○ | ○ | 2Lux |

4. Stand-by time

This is the time period that the light remains at a low level before it is completely turned off.

- I - 0s
- II - 10s
- III - 1min
- IV - 5min
- V - 10min
- VI - 30min
- VII - 1h
- VIII - +∞




| | 6 | 7 | 8 | |
|------|---|---|---|-------|
| I | ● | ● | ● | 0s |
| II | ● | ● | ○ | 10s |
| III | ● | ○ | ● | 1min |
| IV | ● | ○ | ○ | 5min |
| V | ○ | ● | ● | 10min |
| VI | ○ | ● | ○ | 30min |
| VII | ○ | ○ | ● | 1h |
| VIII | ○ | ○ | ○ | +∞ |

5. Stand-by dimming level

Light can be dimmed to different levels after hold-time.

- I - 10%
- II - 30%



| | 9 | |
|----|---|-----|
| I | ● | 10% |
| II | ○ | 30% |

Specification

| | |
|------------------------|--|
| Operating voltage | 120 ~ 277VAC |
| Rated load | 400W @ 120VAC, 1000W @ 277VAC |
| Stand-by power | <0.5W |
| Sensitivity | 50% / 100% |
| Hold-time | 5s / 3min / 10min / 30min |
| Stand-by time | 0s / 10s / 1min / 5min / 10min / 30min / 1h / +∞ |
| Stand-by dimming level | 10% / 30% |
| Daylight sensor | 2 ~ 50lux, disable |
| Microwave frequency | 5.8 GHz +/- 75MHz |
| Transmitting power | <1mW |
| Detection range | Max (diameter x height): 12m x 15m |
| Detection angle | 30° ~ 150° |
| Working temperature | -20°C ~ +60°C |
| IP rating | IP20 |
| Certificate | UL FCC |