Dimming Function

- MC031V
- MC024V RC
- MC024V
- MC020V
- MC020V 2
- MC020V/C
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**MC031V**

**IP65 Microwave Motion Sensor for Warehouse**

**SPECIFICATIONS**

- **Operating voltage**: 220~240Vac
- **Rated Load**: 800W (Inductive), 1200W (Resistive)
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: ≤1W (stand-by)
- **Detection Area (Radius)**: 8m Max.
- **Max. Mounting height**: 1.5m
- **Hold time**: 5s/30s/90s/3min/30min/60min/+∞
- **Stand-by Period**: 5s/5min/10min/30min/60min/+∞
- **Stand-by DIM Level**: 10%/20%/30%/50%
- **Daylight sensor**: 50lux/100lux/200lux/disable
- **Operating temperature**: -35°C ~ 55°C
- **IP rating**: IP65

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*These data were tested by a 165cm height person and the walking speed is 1m/s.*
**MC054V RC**

**Dimming Function / Remote Control Microwave Sensor**

- **Detection Pattern (max / min)**
  - 100%: 2m, 3.5m
  - 75%: 1m, 2m
  - 50%: 0.5m, 1.5m
  - 10%: 0m, 0.5m

**Specifications**

- **Operating voltage**: 220~240Vac
- **Rated Load**: 1000W (Resistive)
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: <0.5W (stand-by)
- **Detection Area (Radius)**: 8m Max.
- **Max. Mounting height**: 15m
- **Stand-by Period**: 5s/30s/1min/3min/20min/30min
- **Stand-by DIM Level**: 10%/20%/30%/50%
- **Daylight sensor**: 5lux/15lux/30lux/50lux/100lux/150lux/Disable
- **Operating temperature**: -35°C ~ 55°C
- **IP rating**: IP65

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**MC049V**

**Dimming Function / Enhanced detection zone**

- **Detection Pattern (max / min)**
  - 100%: 2m, 3.5m
  - 75%: 1m, 2m
  - 50%: 0.5m, 1.5m
  - 10%: 0m, 0.5m

**Specifications**

- **Operating voltage**: 220~240Vac
- **Rated Load**: 1200W (Resistive)
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: ≤0.5W (stand-by)
- **Detection Area (Radius)**: 12m
- **Max. Mounting height**: 12m
- **Hold time**: 5s/30s/90s/3min/20min
- **Stand-by Period**: 0s/5s/5min/10min/30min/1h
- **Stand-by DIM Level**: 10%/20%/30%/50%
- **Daylight sensor**: 2lux/5lux/10lux/25lux/50lux/100lux/Disable
- **Operating temperature**: -35°C ~ 70°C
- **IP rating**: IP20

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*These data were tested by a 165cm height person and his walking speed is 1m/s.
**MC003V**

**Dimming Function / Standard Version**

- **Detection Pattern**
  - 100%: 0m to 8m
  - 75%: 0m to 6m
  - 50%: 0m to 4m
  - 25%: 0m to 2m
  - 10%: 0m to 1m

**Specifications**

- **Operating voltage**: 220~240Vac
- **Rated Load**: 800W (Inductive), 1200W (Resistive)
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: <0.5W (stand-by)
- **Detection Area (Radius)**: 6m Max.
- **Max. Mounting height**: 8m
- **Hold time**: 5s/30s/90s/3min/20min/30min
- **Stand-by Period**: 5s/5min/10min/30min/1h/30min/20min/30min
- **Stand-by DIM Level**: 10%/20%/30%/40%/50%
- **Daylight sensor**: 5lux/10lux/30lux/50lux/disable
- **Operating temperature**: -35°C to 70°C
- **IP rating**: IP20

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**MC003V 2**

**Dimming Function / Economical Version**

- **Detection Pattern**
  - 100%: 0m to 4m
  - 75%: 0m to 3m
  - 50%: 0m to 1.5m
  - 25%: 0m to 1m
  - 10%: 0m to 0.5m

**Specifications**

- **Operating voltage**: 220~240Vac
- **Rated Load**: 200W (Inductive), 400W (Resistive)
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: <0.5W (stand-by)
- **Detection Area (Radius)**: 4m Max.
- **Max. Mounting height**: 6m
- **Hold time**: 5s/30s/90s/3min/20min/30min
- **Stand-by Period**: 5s/5min/10min/30min/1h/30min/20min/30min
- **Stand-by DIM Level**: 10%/20%/30%/40%/50%
- **Daylight sensor**: 5lux/10lux/30lux/50lux/disable
- **Operating temperature**: -25°C to 60°C
- **IP rating**: IP20

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Special features:

- Normal motion detecting
- 5 Year Guarantee
- 100% Stop dimming
- Linear & batten

For detailed specifications and performance data, please refer to the product manual or contact Merrytek directly.
**MC003V/C**

**Dimming Function / Cluster-control Version**

- **Detection Pattern (max / min)**

- **SPECIFICATIONS**
  - Operating voltage: 220~240Vac
  - Rated Load: 800W (Inductive), 1200W (Resistive)
  - HF system: 5.8GHz±75MHz, ISM wave band
  - Transmitting power: <0.5mW
  - Power consumption: <0.5W (stand-by)
  - Detection Area (Radius): 6m Max.
  - Max. Mounting height: 8m
  - Hold time: 5s/30s/90s/3min/20min/30min
  - Stand-by Period: 5s/5min/10min/30min/1h/disable
  - Stand-by DIM Level: 10%/20%/30%/40%/50%
  - Daylight sensor: 5lux/10lux/30lux/50lux/disable
  - Operating temperature: -35℃ ~ 70℃
  - IP rating: IP20

**MC003V/D**

**Dimming Function / Detachable Sensor**

- **Detection Pattern (max / min)**

- **SPECIFICATIONS**
  - Operating voltage: 220~240Vac
  - Rated Load: 400W (Inductive), 800W (Resistive)
  - HF system: 5.8GHz±75MHz, ISM wave band
  - Transmitting power: <0.5mW
  - Power consumption: ≤0.5W (stand-by)
  - Detection Area (Radius): 4m Max.
  - Max. Mounting height: 6m
  - Hold time: 10s/30s/90s/3min/20min/30min
  - Stand-by Period: 5s/5min/10min/30min/1h/+∞
  - Stand-by DIM Level: 10%/20%/30%/40%/50%
  - Daylight sensor: 5lux/10lux/30lux/50lux/disable
  - Operating temperature: -35℃ ~ 70℃
  - IP rating: IP20

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*These data were tested by a 1.65m height person and his walking speed is 1m/s.*
**MC052V RF+MW04**

**RF Wireless Networking Motion Sensor**
- Using the rotary coding switch, easy to create groups.
- Up to 16 different groups can be created.

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**Master-slattlie control**
- When no motion is detected, all lamps will switch off.
- With insufficient ambient light, if motion is detected in any direction by any master, all lamps will switch on at the same time.
- After hold time, all lamps dim to a low light level if no new motion trigger.
- After stand-by period, all lamps will switch off if no movement is detected in the detection zone by any master.

**RF grouping (up to 16 different groups possible)**
MC052V RF has one TX channel and MW04 has one RX channel. The TX channel is used for transmitting RF signal and the RX channel is used for receiving RF signal. Use a small screwdriver to rotate the rotary switches and keep them pointed to the same channel, groups will be created automatically.

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MC052V RF/MC052V RF1</th>
<th>MW04</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating voltage</strong></td>
<td>220–240Vac</td>
</tr>
<tr>
<td><strong>Rated LED Load</strong></td>
<td>400W (Inductive), 800W (Resistive)</td>
</tr>
<tr>
<td><strong>HF system</strong></td>
<td>5.8GHz±75MHz, ISM wave band</td>
</tr>
<tr>
<td><strong>Transmitting power</strong></td>
<td>≤0.5mW</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>≤1W (stand-by)</td>
</tr>
<tr>
<td><strong>Detection Area (Radius)</strong></td>
<td>8m</td>
</tr>
<tr>
<td><strong>Max. Mounting Height</strong></td>
<td>12m</td>
</tr>
<tr>
<td><strong>Hold time</strong></td>
<td>0s/5s/5min/10min/30min/60min/+∞</td>
</tr>
<tr>
<td><strong>Stand-by Period</strong></td>
<td>0s/5s/5min/10min/30min/60min/+∞</td>
</tr>
<tr>
<td><strong>Stand-by DIM Level</strong></td>
<td>10% / 20% / 30% / 50%</td>
</tr>
<tr>
<td><strong>Daylight sensor</strong></td>
<td>5lux / 15lux / 30lux / 50lux / 100lux / 150lux / Disable</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-35℃ ~ 70℃</td>
</tr>
<tr>
<td><strong>IP rating</strong></td>
<td>IP20</td>
</tr>
</tbody>
</table>

*These data were tested by a 165cm height person and his walking speed is 1m/s.
**MC042P**

Night/Light Function Motion Sensor for COB Flood Light

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### DC Operation

![DC Operation](image)

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>220~240Vac</td>
</tr>
<tr>
<td>Rated LED Load</td>
<td>100W Max.</td>
</tr>
<tr>
<td>HF system</td>
<td>5.8GHz±75MHz, ISM wave band</td>
</tr>
<tr>
<td>Transmitting power</td>
<td>≤0.5mW</td>
</tr>
<tr>
<td>Power consumption</td>
<td>≤0.5W(stand-by)</td>
</tr>
<tr>
<td>Detection Area (Radius)</td>
<td>10m(wall mounting); 12m(ceiling mounting)</td>
</tr>
<tr>
<td>Max. Mounting height</td>
<td>3m(wall mounting); 6m(ceiling mounting)</td>
</tr>
<tr>
<td>Hold time</td>
<td>5s/60s/3min/5min</td>
</tr>
<tr>
<td>Stand-by Period</td>
<td>N/A</td>
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<tr>
<td>Stand-by Dim Level</td>
<td>15% or 30%, fixed by the factory</td>
</tr>
<tr>
<td>Daylight sensor</td>
<td>25lux/50lux/disable</td>
</tr>
<tr>
<td>Daylight priority</td>
<td>Open:25lux/50lux/disable; Closed:50lux/100lux/Disable</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-35°C~+55°C</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP65</td>
</tr>
</tbody>
</table>

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*These data were tested by a 165cm height person and his walking speed is 1m/s.*
**MC016D**

**Dry Contact Motion Detector**

**MC002D 6**

**Sensor Module**

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**SPECIFICATIONS**

- **Operating voltage**: 12Vdc
- **Rated Load**: N/A
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: ≤0.5W (stand-by)
- **Detection Area (Radius)**: 6m Max.
- **Max. Mounting height**: 6m
- **Hold time**: 10s/30s/90s/3min/30min
- **Stand-by Period**: N/A
- **Stand-by DIM Level**: N/A
- **Daylight sensor**: 5lux/10lux/30lux/50lux/disable
- **Operating temperature**: -35℃ ~ +70℃
- **IP rating**: IP20

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**SPECIFICATIONS**

- **Operating voltage**: 12VDC+/-2V
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: ≤0.5W (stand-by)
- **Detection Area (Radius)**: 4m Max.
- **Max. Mounting height**: 4m
- **Hold time**: 5s/30s/3min
- **Stand-by Period**: 0s/30s/3min/+∞
- **Stand-by DIM Level**: 20%
- **Daylight sensor**: 5lux/15lux/50lux/disable
- **Operating temperature**: -25℃ ~ +60℃
- **IP rating**: IP20

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*These data were tested by a 165cm height person and his walking speed is 1m/s.*

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**Detection Pattern (max / min)**

**Detection Pattern (typical)**
**MC011D/A**

**DC Operation - Advanced Version**

- **Detection Pattern (max / min)**
  - 100%: 6m
  - 75%: 3m
  - 50%: 1.5m
  - 25%: 0.5m

**Specifications**

- **Operating voltage**: 25~100Vdc
- **Rated LED Load**: 50W-200W
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: ≤0.5W (stand-by)
- **Detection Area (Radius)**: 4m Max.
- **Max. Mounting height**: 6m
- **Hold time**: 10s/90s/3min/10min
- **Stand-by Period**: 0s/5min/10min/30min/60min/+∞
- **Stand-by DIM Level**: 10%/20%/30%/40%/50%/60%/70%/80%
- **Daylight sensor**: 10lux/30lux/50lux/disable
- **Operating temperature**: -35℃~70℃
- **IP rating**: IP20

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**MC011D6**

**DC Operation**

- **Detection Pattern (max / min)**
  - 100%: 6m
  - 75%: 3m
  - 50%: 1m
  - 25%: 0.5m

**Specifications**

- **Operating voltage**: 12~24Vdc
- **Rated LED Load**: 120W LED, 5A Max.
- **HF system**: 5.8GHz±75MHz, ISM wave band
- **Transmitting power**: <0.5mW
- **Power consumption**: ≤0.5W (stand-by)
- **Detection Area (Radius)**: 4m Max.
- **Max. Mounting height**: 6m
- **Hold time**: 5s/30s/3min/20min/Always on
- **Stand-by Period**: N/A
- **Stand-by DIM Level**: 0%/10%/20%/30%
- **Daylight sensor**: 30lux/Disable
- **Operating temperature**: -25℃~60℃
- **IP rating**: IP20

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*These data were tested by a 165cm height person and his walking speed is 1m/s.