



MS1 SERIES KNOCKOUT MOUNT MICROWAVE MOTION SENSOR 120-277V



5YEAR
WARRANTY

Catalog #	
Project	
Date	
Prepared by	
Model #	MS1-DHR-KO-1

OVERVIEW

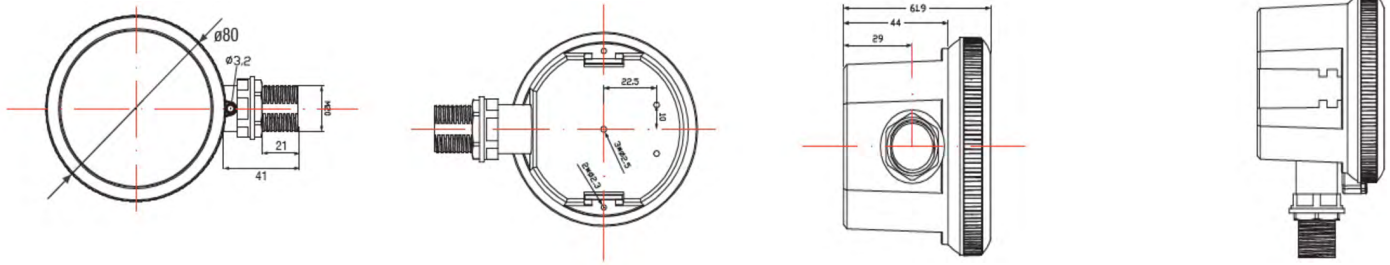
The MS1-DHR-KO-1 is a knockout mounted sensor that uses microwave technology to detect motion.

PRODUCT HIGHLIGHTS

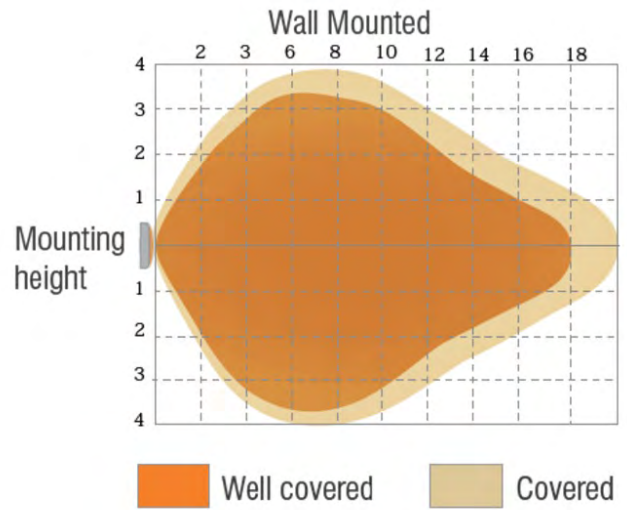
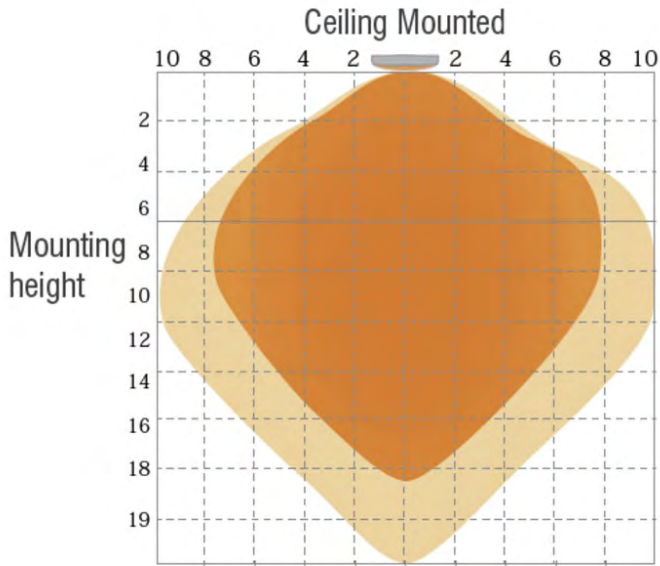
- Microwave technology
- Dimmable
- Remote control programming
- Settings include: detection range, hold time, stand-by dimming level, stand-by period and daylight sensor
- For high ceiling applications ranging from 15-48ft
- 360° of coverage
- Installs onto a 1/2 inch knockout located on a fixture or junction box
- Load: 3A @ 120V, 2A @ 277V

ELECTRICAL SPECIFICATIONS		APPROVALS & LISTINGS	
Input Voltage	120-277V	IP Rating	IP65
Max Load	Load: 3A @ 120V, 2A @ 277V	UL/ETL Listed	E510715
CONSTRUCTION		SENSOR SETTINGS	
Housing Material	Polycarbonate	SETTINGS	RC01 REMOTE
Housing Color	White	Detection Range	20-100%
Dimensions (inch/mm)	L: 4 3/4" (121mm) W: 3 1/8" (80mm) H: 2 7/16" (62mm)	Hold Time	5s-30min
Weight (g/oz)	240g / 8.5oz	Stand-by Dim Level	10-50%
Installation Method	1/2" knockout	Stand-by Period	0s-20min, ∞
Operation Range (°C/°F)	-35°C to 60°C / -31°F to 140°F	Daylight Sensor Level	2-120lux, disable
Warranty	5 years		

PRODUCT DIMENSIONS



FIELD OF VIEW



Units = metres

How To Use The Remote

On/Off Mode: press On/Off & adjust **brightness**. Press **auto mode** to enter **sensor mode**

Sensor Mode: press **auto mode** for **default settings** or to apply **memory** settings or last adjusted settings

To begin to select custom **sensor mode** settings, press the **start** button

- 1) Select a specific: **detection range, hold time, stand-by dimming level, stand-by period** and **daylight sensor** setting
- 2) Press **memory** to save all of the selected settings above
- 3) Press **apply** to send all saved settings to sensor
- 4) Press **apply** to send all saved settings to any additional sensor

LED Indicators and Function

- Button press indicator
- Apply button indicator

Button Layout and Function



On/Off
Turn light **ON** or **OFF**
Sensor is deactivated,
enters **on/off mode** to
adjusted **brightness**



Auto Mode
Activate **sensor mode**,
light will turn **ON**
Applies **default settings**, saved
and applied **memory** settings or
last adjusted settings
Fixture will blink to 10% when
pressed



Reset
Reset to **on/off mode**
Erases **memory**, resets remote
to **default settings**
Output **brightness** is 100%
Fixture will blink to 10% when
pressed



Brightness
In **on/off mode**, adjust max output level
from 100-10%



In **sensor mode**, adjust max output level
from 100-60%, anytime during mode
While **OFF** in **on/off mode**, press
brightness +up to set output level
to 10%*



Start
Press to set all sensor settings;
detection range, hold time,
stand-by dimming, stand-by
period and **daylight sensor**
threshold

After **start**, 30s is available to
set settings for **memory**, or they
will reset. Settings can be set and
saved away from sensor



Memory
Press to save all selected
settings on remote

Settings will save on remote until
reset is pressed or batteries
removed

After **memory** is selected, 30s is
available to **apply** settings



Apply
Press to send all saved **memory**
settings to the sensor and begin
sensor mode. Can apply to an **OFF**
sensor and in either mode

Press **apply** to send all saved
settings to any additional sensor
Any manual adjusted settings not
saved to **memory** are not applied



Sensor Settings

Press any button below to manually adjust sensor settings. Fixture will blink to 10% when pressed. Manual settings are not stored. **Start** and **memory** sequence must be followed to set settings using **apply**



50% 75% 100%

Detection Range (Sensitivity) Setting

100% - 25% detection range
Actual detection distance varies by
mounting height
Refer to sensor field of view diagram



30s 1min 3min

Hold Time Setting

After last detected motion, amount of
time to hold light at 100% or selected
brightness from; 30s up to 30min



20% 30% 50%

Stand-by Dimming Level Setting

No motion dimming level from 10% to 50%
If no motion is detected for the selected **hold time**, the light will turn off [0%] if 0s is
selected for **stand-by period** or dim down to 10%/20%/30%/50%. The light will remain
off or dimmed for the selected **stand-by period**. Once motion is detected, it will then
return to set **brightness** level



10s 30s 1min

Stand-By Period Setting

No motion dimming stand-by time in
seconds and minutes; 10s to infinity
0s - stand-by time is 0s
+∞ - Light will remain dimmed until
motion is detected



10Lux 30Lux 50Lux

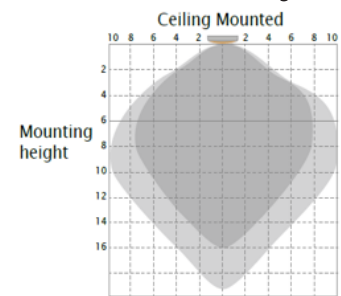
Daylight Sensor Setting

Set the ambient lux level. Sensor will
turn light **ON** once below level, and **OFF**
above level; 2 lux up to 120 lux
Disable will ignore ambient lux levels

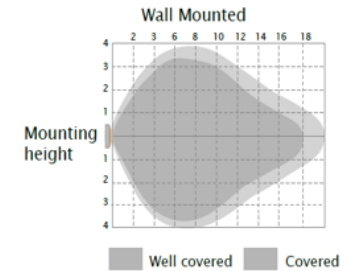


80Lux 120Lux Disable

Field of View Diagram



*Detection at 100% sensitivity



*Detection at 100% sensitivity



Test Button
Press to run test mode
Hold time is 2s in test mode
Use to check light and remote
connectivity

Default Settings

Detection Range: 25%
Hold Time: 5s
Stand-by Dimming: 10%
Stand-by Period: 0s
Daylight Sensor: disable

1. Due to the special conditions of manufacturing, the typical data of optical specifications can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.
2. Exceeding maximum ratings for input voltage and current will cause hazardous overload and will likely destroy the LED fixture.
3. Refer to Warranty Terms & Conditions available at premiseled.com/warranty