



# MS1 SERIES KNOCKOUT MOUNT MICROWAVE MOTION SENSOR 120-277V



**5YEAR**  
WARRANTY

Catalog #	
Project	
Date	
Prepared by	
Model #	<b>MS1-DHR-KO-1</b>

## OVERVIEW

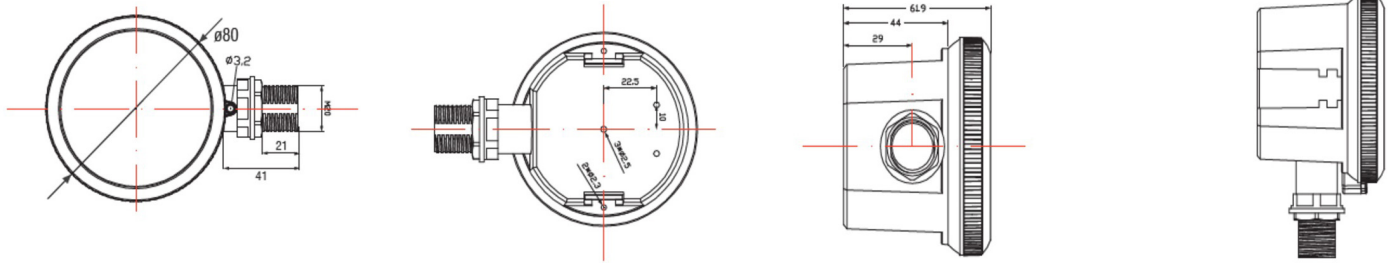
The MS1-DHR-KO-1 is a knockout mounted sensor that uses microwave technology to detect motion.

## PRODUCT HIGHLIGHTS

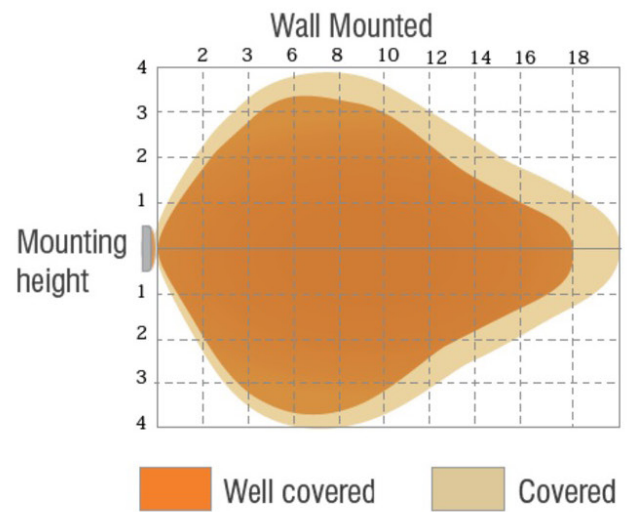
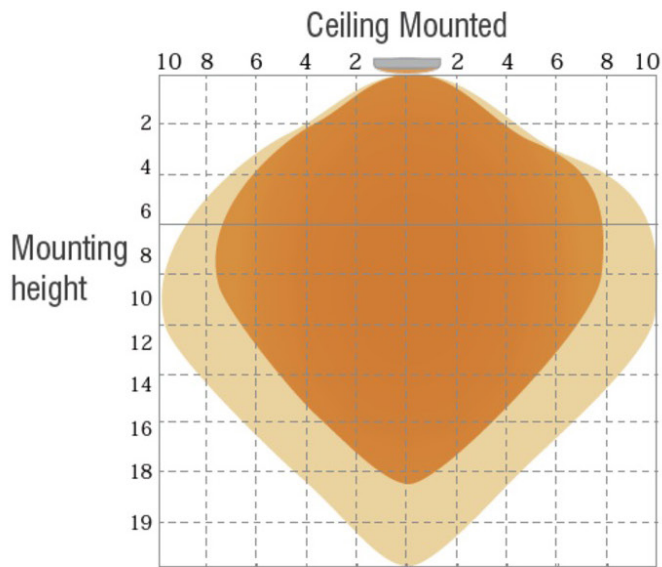
- Microwave technology
- Dimmable
- Remote control programming
- Settings include: detection range, hold time, stand-by dimming level, stand-by period and daylight sensor
- For high ceiling applications ranging from 15-48ft
- 360° of coverage
- Installs onto a 1/2 inch knockout located on a fixture or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



## How To Use The Remote

To begin, 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 the selected settings
- 3) Press Apply to send saved settings to sensor
- 4) Press Apply to send 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

**Auto Mode**  
Turn sensor on  
Retains settings saved  
before the light was  
turned off

**RESET**  
Reset light to **ON/OFF** mode  
Output is 100%

**Brightness**  
Adjust **ON/OFF** mode max output level  
from 100-10%  
Adjust **sensor mode** max output level  
from 100-60%

**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, or they will be reset

**Memory**  
Press to save selected settings  
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 saved Memory  
settings to the sensor.  
Press Apply to send saved  
settings to any additional  
sensor  
If Memory is not saved, the  
settings will be applied one  
time and not save



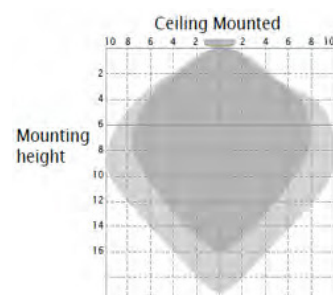
**Detection Range (Sensitivity) Setting**  
100% - 25% detection range  
Actual detection distance varies by  
mounting height  
Refer to sensor field of view diagram

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

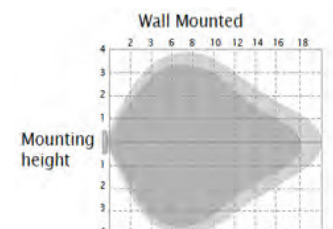
**Stand-by Dimming Level Setting**  
No motion dimming level from 10% to 50%  
If no motion is detected for the selected hold time, the light will turn off [0%] if 0s is  
selected for **stand-by period** or dim down to 10%/20%/30%/50%. The light will remain  
off or dimmed for the selected **stand-by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

**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

**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 light levels



\*Detection at 100% sensitivity



Well covered Covered

\*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

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](http://premiseled.com/warranty)