PREMISE

Catalog #	
Project	
Date	
Prepared by	
Model #	**HB-MSX1-1**

HBX1
CENTRE MOUNT MICROWAVE MOTION SENSOR 100-277VAC

OVERVIEW

The HB-MSX1-1 is a centre mounted sensor for the 120-277V HBX1 that uses microwave technology to detect motion.

PRODUCT HIGHLIGHTS

- Microwave technology
- Remote control programming
- Settings include: detection range, hold time, stand-by dimming level, and daylight sensor
- For mounting height: 0-10m/0-32ft
- 360° of coverage
- cULus listed
- Installed into centre of 120-277V HBX1
- Load: 0-800W/VA@120V, 0-1200W/VA @277V

cULus LISTED | IP65 | 5 YEAR WARRANTY

ELECTRICAL SPECIFICATIONS			
Input Voltage	120-277V	**Current Draw at 120V$_{AC}$ (A)**	6.7A
Max Watts	Load: 0-800W@120V, 0-1200W@277V	**Current Draw at 277V$_{AC}$ (A)**	4.3A

CONSTRUCTION	
Housing Material	Polycarbonate
Housing Color	White
Ambient Operating Humidity	0-85% RH, non-condensing
Dimensions (inch/mm)	61.5mm x 61.5mm x 28.5mm
Weight (kg/lbs)	100 g
Installation Method	1/2" Centre Knockout
Operation Range (°C/°F)	-35-60°C / -31-140°F
Warranty	5 years

APPROVALS & LISTINGS	
IP Rating	IP65
UL/ETL Listed	UL
UL/ETL File Number	E503809

FIELD OF VIEW	
Sensor Coverage	2163 sq. ft.

SENSOR SETTINGS	
Sensitivity Adjustment	100%/75%/50%/25%
Sensor Type	Microwave
Sensor Application	Fixture Mount Hard Wired
Stand-by dimming level	0%/20%/30%/50%
Hold Time	5s/2min/5min/10min
Stand-By Time	0s/1min/5min/10min/30 min/∞
Microwave Frequency	5.8GHz+/-75MHz
Control Type	Remote Control

Function description of remote control:

	OFF	Hibernation- the sensor stops working and goes into hibernation. Press any other key to re-enter the working.		
	Mode1	100% detection range + 0%/100% + 2 min hold + 0s stand-by	**Mode2**	100% detection range + 20%/100% + 2 min hold + 0s stand-by
	Mode3	50% detection range + 0%/100% + 2 min hold + 0s stand-by	**Mode4**	50% detection range + 20%/100% + 2 min hold + 0s stand-by
	5s **2min** **5min** **10min**	Hold time	**Test**	Test button 6S
	50%/100% **30%/100%** **20%/100%** **0%/100%**	Stand by Dimming Level	**Reset**	Factory reset
	30% **60%** **80%** **100%**	Fixed Dim mode	**100%** **75%** **50%** **25%**	Detection Range
	3H **6H** **9H**	Not In Use		Not In Use
	50LUX **100LUX** **200LUX**	Not In Use		Cancel photocell mode
	0s **1min** **5min** **10min** **30min** **∞**	Standby time setting	**Dim/Time** **Dim/Time**	Not In Use

How To Use Remote:
Always start by hitting the cancel photocell button.
There are 3 options to set the settings for the motion sensor.
1. Pick one of the modes.
2. Fixed dim mode – these buttons won't work with any other settings.
3. Choose a detection range, hold time, stand-by dimming level, stand-by time.

Detection Range Setting:
1. 100% button - Detection range is 100% (actual detection distance varies depending on mounting height – refer to field of view diagram).
2. 75% button - Detection range is 75% (actual detection distance varies depending on mounting height – refer to field of view diagram.
3. 50% button - Detection range is 50% (actual detection distance varies depending on mounting height – refer to field of view diagram).
4. 25% button - Detection range is 25% (actual detection distance varies depending on mounting height – refer to field of view diagram).

Hold Time Setting:
1. 5s button – Hold time is 5 seconds
2. 2min button – Hold time is 2 minutes
3. 5min button – hold time is 5 minutes
4. 10min button – hold time is 10 minutes

Stand-by Dimming Level Setting:
1. 0%-100% button – If no motion is detected for the selected hold time (5s/2min/5min/10min), the light will turn off. Once motion is detected, the light will return to 100%.
2. 20%-100% button – If no motion is detected for the selected hold time (5s/2min/5min/10min), the light will drop down to 20%. The light will re main at 20% for the selected stand-by time setting (0s/1min/5min/10min/30min/infinity). Once motion is detected, the light will return to 100%.
3. 30%-100% button – If no motion is detected for the selected hold time (5s/2min/5min/10min), the light will drop down to 30%. The light will re main at 30% for the selected stand-by time setting (0s/1min/5min/10min/30min/infinity). Once motion is detected, the light will return to 100%.
4. 50%-100% button – If no motion is detected for the selected hold time (5s/2min/5min/10min), the light will drop down to 50%. The light will re main at 50% for the selected stand-by time setting (0s/1min/5min/10min/30min/infinity). Once motion is detected, the light will return to 100%.

Fixed Dim Mode Setting:
1. 30% button – Light stays at 30%
2. 60% button – Light stays at 60%
3. 80% button – Light stays at 80%
4. 100% button – Light stays at 100%

Test Button:
Dims the light down to 10% for 6 seconds, then returns to previously programmed light level.

Turn off Photocell button:
Disables the photocell.

Stand By Time setting:
1. 0s – Stand-by time is zero seconds.
2. 1min – Stand-by time is 1 minute.
3. 5 min – Stand-by time is 5 minutes.
4. 10 min – Stand-by time is 10 minutes.
5. 30 min – Stand-by time is 30 minutes.
6. ∞ - Light will never turn off. Light will remain at stand-by dimming level setting until motion is detected.

Factory Reset:
1. Reset settings back to factory settings (100% detection range + 0%/100% + 2 min + 0s stand-by)

PRODUCT DIMENSIONS

52.50

42.50

38.50

⌀61.50

1/2"-14T NPS

FIELD OF VIEW

6m

10 m

16m

10m

Specifications and dimensions
subject to change without notice.

3401 ENTERPRISE PARKWAY
BEACHWOOD, OH USA 44122

80-86 CARRIER DRIVE
TORONTO, ON CANADA M9W 5R1

PREMISE**LED**.COM