

MSA-B

Passive Infrared Motion sensor

Manual version 1



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Introduction

The MSA-B is a “passive infrared” motion sensor that is well suited to work directly with the Sprite® video repeater. The sensor will detect warm body motions crossing its view and output a TTL “High” pulse. It operates on 5 Volts DC from the Sprite’s IO port with minimal power use and directly trigger the Sprite® with no other electronics needed. The range of the sensor is about 20 feet with about 120° field of view, but can vary by ambient conditions. In example, if the room temperature is close to body temperature, the sensor may not detect motion well.

Operation

When first powered on, the sensor will need a minute or two to calibrate itself to the room. During this time there will be no trigger output. The sensor then “watches” for heat moving across its path from one zone to another. With this in mind, the sensor may not easily detect a person walking directly toward it, and is more likely to detect a person walking across its view. You can experiment with the sensor location and aim.

If using the MSA-B with the Sprite® video repeater, you should set the Sprite’s Play Mode to “Video Control Mode” for video files, or “Audio Control Mode” for audio files. Then set the Control Mode to the “Trigger High No Interrupt” setting. You will need 2 files on the SD memory card (or USB drive) named 000 and 001. The 000 file will loop continuously when power is applied until there is a trigger event. The MSA-B will cause a trigger event when it detects motion, and the Sprite® will play the file named 001. Both files should be longer than 5 seconds. We recommend 30 seconds or longer for the loop file. The loop can be a black video or a silent audio file if you want it to be un-noticed before the trigger event. You can add some extra time or black space to the end of the 001 file as a delay to allow the person to walk away before a new trigger occurs.

Wiring

If connecting direct to the Sprite®:

The MSA-B will plug into the Sprite's I/O port.
Set the Sprite® to the "Trigger High No Interrupt" option.

If connecting to the 8X78:

Follow the directions in the 8X78 manual.

Adjustments

You may need to experiment with the location and angle of the sensor for best results. Sometimes mounting on a wall is best, for other applications the ceiling is best. You can also limit the view of the sensor by partially blocking it with black tape or some other obstruction. Most uses will not require any other adjustments.

You can add delay to your video file 001 as required by adding some black or other uninteresting video at the end of the triggered file 001. This will allow the person time to exit the area before allowing a new trigger event.

Mounting

The MSA-B sensor can be mounted using screws in the provided holes.

Sealing for Rain

If you need to operate the MSA-B in a wet location, you can use RTV silicone to seal the sensor dome to the case, and the wire exit hole.

Support

[Word-wide](#)

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Custom Orders

We offer value added options such
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