



MIRS SERIES LOW COST MOTION SENSOR

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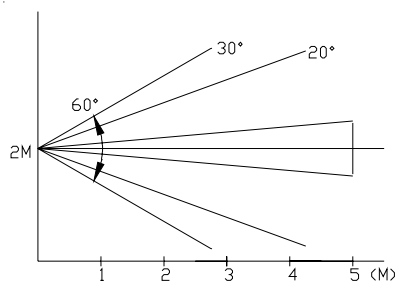
FEATURES

- Ball Lens - Provides 60 Degree Detection Angle
- High Sensitivity
- Standard Duplex Wall Box Mounting
- Dust and Moisture Resistant
- Power-up Delay to prevent False Triggering
- High Immunity to RFI

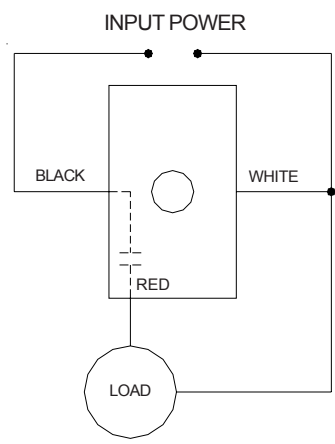
SPECIFICATIONS

- 1. Time Delay.**
 - 1.1 Type: C/MOS digital circuitry
 - 1.2 Range: Fixed turn off delays available (1-1000 seconds)
 - 1.3 Repeat accuracy: ±1% under fixed conditions
 - 1.4 Calibration accuracy: ±2%
 - 1.5 Reset time: .5 second maximum
 - 1.6 Recycle time: 1 second
 - 1.7 Time delay vs. voltage and temperature: ±2%
- 2. Input.**
 - 2.1 Operating voltage: 24, 120 & 230 VAC
 - 2.2 Tolerance: ±20% of nominal
 - 2.3 Frequency: 50 - 60 Hertz
- 3. Output.**
 - 3.1 Type: Solid state
 - 3.2 Form: SPST N.O.
 - 3.3 Rating: 50 & 500 milliamperes available
 - 3.4 Life: Full load - 100,000,000 operations
- 3. Photometric**
 - 3.1 Spectral Response: 5-14uM
 - 3.2 Sensitivity (420K, 1Hz): 3300 V/W
 - 3.3 Detectivity (cmHz^{1/2}/W) (420K, 1Hz): 1.5X10⁸ D*
 - 3.4 NEP (420K, 1Hz, 1Hz): 9.6X10⁻¹⁰ W
- 4. Protection.**
 - 4.1 Transient: ±1500 volts for 150 microseconds
 - 4.2 Dielectric breakdown: 1500 volts RMS minimum
- 5. Mechanical.**
 - 5.1 Mounting: Two #8 machine screws
 - 5.2 Termination: #20 gauge, stranded, UL1007, wire (3 places)
 - 5.3 Style: Mounts to standard duplex electrical, wall box.

VERTICAL VIEW PATTERN



TYPICAL CONNECTION DIAGRAM



MODE OF OPERATION

MOTION SENSOR CONTROL

Upon application of Input Power the output contact is de-energized and the unit begins a 40-60 second arming period. Once armed, if there is no Infra-Red motion within the sensing area the output contact remains in the de-energized state. Within 1 second of detecting Infra-Red motion within the sensing area the output contact energizes and remains in that state until after the conclusion of the Infra-Red motion within the sensing area. At this point the sensor is armed and ready. Removal and re-application of Input Power will reset the control.

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	OUTPUT RATING	TURN OFF DELAY
MIRS	4 - 24 VAC	A - 50 mA B - 500 mA	1 = standard (1 second) special delays from 2-1000 seconds available in 1 second increments.
	5 - 120 VAC		
	6 - 230 VAC		

