

IR-29 PIR Motion Detector Series

Enhanced Flexibility and Affordability



- Two Battery Selections
- Fast Speed Signal Transmission
- Microprocessor Controlled
- Advanced ADSP Algorithms

IR-29 Series is a microprocessor controlled PIR Motion Detector that offers quality detection. The advanced Adaptive Digital Signal Processing (ADSP) algorithms in IR-29 Series guarantee high performance in sensitivity, reliability, and false alarm immunity. The sensitivity levels of IR-29 Series can be adjusted to suit different premises. To further enhance its flexibility and affordability, Lithium or Alkaline batteries are available for selection.

IR-29-F1 and IR-29-F2 adopt the latest RF technologies to deliver super speed signal transmission and extensive communication range up to 300 meters in open space. With fast data transmission, IR-29-F1 and IR-29-F2 are designed to effectively reduce signal collisions and further extend battery life. IR-29-F1 is compatible with AC powered F1 control panels and IR-29-F2 is compatible with battery operated F2 control panels

Easy and flexible to install, IR-29 Series sends regular supervision signals to check system integrity and has tamper-proof design to prevent the opening or removal of its housing. The compact, low-profile housing allows IR-29 Series to blend naturally with the settings where it is installed.

Features

- Powered by pre-inserted Lithium or Alkaline batteries
- Microprocessor controlled with advanced ADSP algorithms for false alarm immunity
- Long battery life
- Super speed signal transmission (F1 and F2 models only)
- Compatibility with AC powered F1 panels (F1 model only)
- Compatibility with battery operated F2 panels (F2 model only)
- Two selectable sensitivity levels
- Surface or corner mount with tamper protection against removal
- Randomized supervision signals for system integrity checks and troubleshooting
- Low battery detection
- Superior white light and noise rejection
- Superior radio interference rejection of up to 20V/m at frequencies of 100KHz to 1GHz
- Detection range: 12 meters over a 110° angle
- Automatic power saving mechanism
- Insect and dirt proof
- Compact and low-profile
- LED serving as a fault and test mode indicator or a walk test mode button
- Temperature compensated sensitivity control
- Compliant with CE and FCC requirements
- Certified to Standard: EN 50131 Grade2, Class II

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Specifications

	IR-29	IR-29-F1	IR-29-F2
Battery Available	1.5V AA Alkaline Battery X 2 (pre-inserted) CR123A 3V 1500mAh x1 (pre-inserted)	1.5V AA Alkaline Battery X 2 (pre-inserted) CR123A 3V 1500mAh x1 (pre-inserted)	1.5V AA Alkaline Battery X 2 (pre-inserted) CR123A 3V 1500mAh x1 (pre-inserted)
Battery Life (Alkaline)	5.9* years (433MHz) 5.2* years (868.35MHz) 4.2* years (868.6375MHz)	5.5* years (433MHz) 5.44* years (868.6375MHz)	4.8* years
Battery Life (Lithium)	5.9* years (433MHz) 5.1* years (868.35MHz) 4.1* years (868.6375MHz)	5.8* years (433MHz) 5.44* years (868.6375MHz)	5* years
Frequency Available	433MHz/ 868.35MHz/ 868.6375MHz	433MHz/ 868.6375MHz	433MHz
Operating Temperature	-10°C to 45°C	-10°C to 45°C	-10°C to 45°C
Operating Humidity	Up to 85% non-condensing	Up to 85% non-condensing	Up to 85% non-condensing
Dimensions	53.2mm X 67mm X 89.2mm	53.2mm X 67mm X 89.2mm	53.2mm X 67mm X 89.2mm

* Note: Battery life varies based on environment and usage.