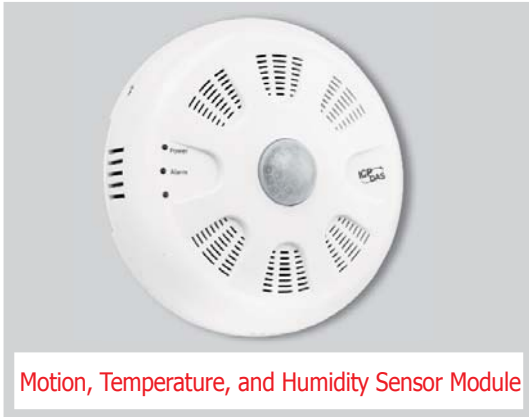


PIR-230-E/BLE/WF RPIR-230-E/BLE/WF



Features

- Adjustable Time-Delay / Lux / Sensitivity
- Internal Photosensor for Smart Switch Control
- LED Indicator for PIR/Temperature Sensor
- Temperature Sensor for Measuring Room Temperature
- Suitable as either Temperature or Fire Alarm
- Relay Output Can be Used to Control Light Via the PIR/Temperature Sensor
- Suitable for loads up to 1500 W (Incandescent) and 300 W (Fluorescent)
- Fluorescent (T8) Loading Capability
- Wide range of Communication Interfaces and Protocols
- Ceiling or Surface-Mount Design

Introduction

PIR series modules have the ability to detect infrared waves generated by the human body within a diameter of approximately 8 meters, with a coverage area of 360° for indoor motion detection. The modules can be configured to automatically switch on a light if motion is detected. The modules also contain a temperature and humidity sensor for measuring indoor temperature and humidity, or it can be configured to activate a fire alarm. The RPIR versions include added microwave detection technology that is especially suitable for BA applications. A wide range of interface connections can be selected to suit individual needs, including RS-485/ZigBee/Ethernet/Bluetooth/Wi-Fi models, and the various models provide support for the DCON and Modbus RTU/TCP protocols, and can be easily integrated into existing HMI/SCADA/central control systems.

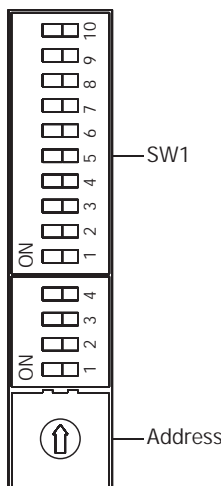
The PIR series provides motion detection and temperature measurement capabilities, while the RPIR series provides motion and presence detection capabilities, as well as temperature and humidity and other environmental measurements. The energy-efficiency enhancements provided in the PIR series are very helpful for indoor motion sensing, anti-theft security, quality of life, green energy, and environmental protection. A free Utility is also included that allows configuration information and data to be displayed in a powerful chart format that can be exported to Microsoft Excel.

The screw-free quick-connect connector and the DIP and rotary switches make the modules easy to install, repair, and maintain. The casing of each module is made from UL94-V2 rated fireproof material, and the white minimalist exterior design ensures that it easy to match with interior decoration.

Applications

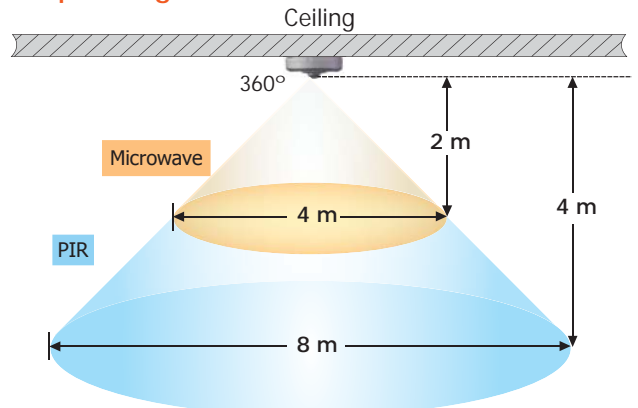
- Lighting and exhaust fans in public toilets
- Common lighting in staircases
- Lighting in parking areas
- Garden lights
- Lighting for changing rooms in shops
- Corridor lighting, and many more situations

DIP Switch Settings

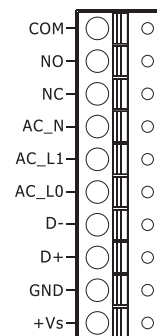


SW1	ON	OFF
1	DCON	Modbus
2	SW Config.	HW Config.
3	High Node	Low Node
4	INIT	Run
5	Reserved	
6		
7		
8		
9		
10	FW update	Null

Operating Distance



Pin Assignments

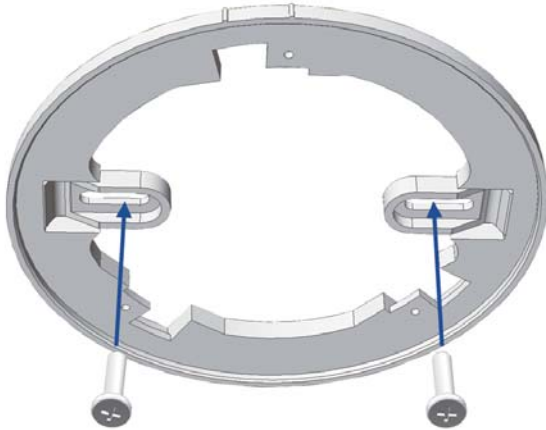


Specifications

Model	PIR-230-E	PIR-230-BLE	PIR-230-WF	RPIR-230-E	RPIR-230-BLE	RPIR-230-WF
Motion and Occupancy Sensor						
Delay Time	Hardware: 8-step Switch-selectable (seconds): 6, 16, 33, 66, 131, 262, 524, 1049 Software: 16-step (seconds): 2, 4, 6, 8, 16, 33, 49, 66, 131, 262, 393, 524, 1049, 2097, 3146, 4194					
Lux Control Level	Hardware: 2 modes(Dawn and Dust) / Software: 5-step					
Detection Height	4 m Max.			PIR = 4 m, Microwave = 2 m		
Motion Detection Field of View	360°; 8 m Diameter Max.					
Occupancy Detection Field of View	-			360°; 4 m Diameter Max.		
PIR Response Time	1 second					
Temperature Sensor						
Measurement Range	-40 to +120°C					
Fire Alarm	65°C (Programmable)					
Resolution	0.01°C					
Accuracy	±0.5°C (at 0 to 60°C)					
Relative Humidity Measurement						
Range	0 to 100% RH					
Resolution	0.01% RH					
Accuracy	±5% RH					
Digital Input						
Channels	2					
Type	Wet					
On Voltage Level	70 to 220 VAC					
Off Voltage Level	20 VAC Max.					
Input Impedance	68 KΩ, 1 W					
Relay Output						
Channels	1					
Type	Power Relay, Form C					
Max. Load Current	NO: 10 A @ 250 VAC NC: 6 A @ 250 VAC					
Load Wattage	Incandescent Bulb: 1500 W Max.; Fluorescent Lamp: 300 W Max.					
Communication						
Node Address	Hardware: 160 to 191 / Software: 1 to 255					
Protocol	DCON, Modbus RTU, Modbus TCP					
Wired Interface	Yes, RS-485 X 1 and Ethernet/PoE X1					
Wireless Interface	-	Bluetooth	Wi-Fi	-	Bluetooth	Wi-Fi
Supported Standard	-	BT 4.0	IEEE 802.11 b/g/n	-	BT 4.0	IEEE 802.11 b/g/n
Wireless Mode	-	Slave	Infrastructure/ Limited AP	-	Slave	Infrastructure/ Limited AP
Wireless Security	-	AES 128	WEP, WPA ,WPA2	-	AES 128	WEP, WPA ,WPA2
Transmission Range	-	20 m (LOS)	50 m (LOS)	-	20 m (LOS)	50 m (LOS)
LED Indicators						
LED Indicators	Yes,1 as Power/Communication Indicator. 1 as Alarm Indicator.					
EMS Protection						
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal, ±8 kV Air for Random Point					
EFT (IEC 61000-4-4)	±4 kV for Power Line					
Power Requirements						
Power Supply	18 to 48 Vdc, PoE					
Reverse Polarity Protection	Yes					
Consumption	2 W	2.5 W	3 W	2 W	2.5 W	3 W
Mechanical						
Installation	Ceiling /surface mounted					
Protection Class	IP20					
Dimensions (D x H)	Ø 150 mm x 53 mm					
Environment						
Operating Temperature	0 to +35°C			0 to +75°C		
Storage Temperature	-30 to +80°C					
Humidity	10 to 90% RH, Non-condensing					

■ Mounting

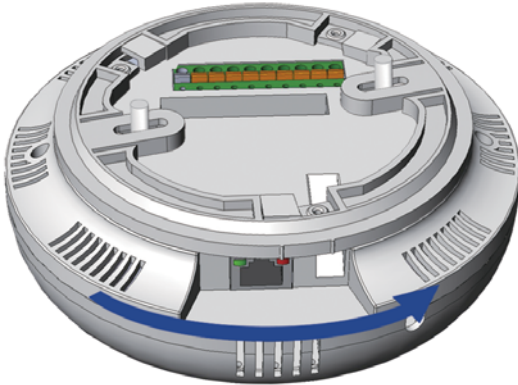
① Align the locking guides



② Attach the mounting plate



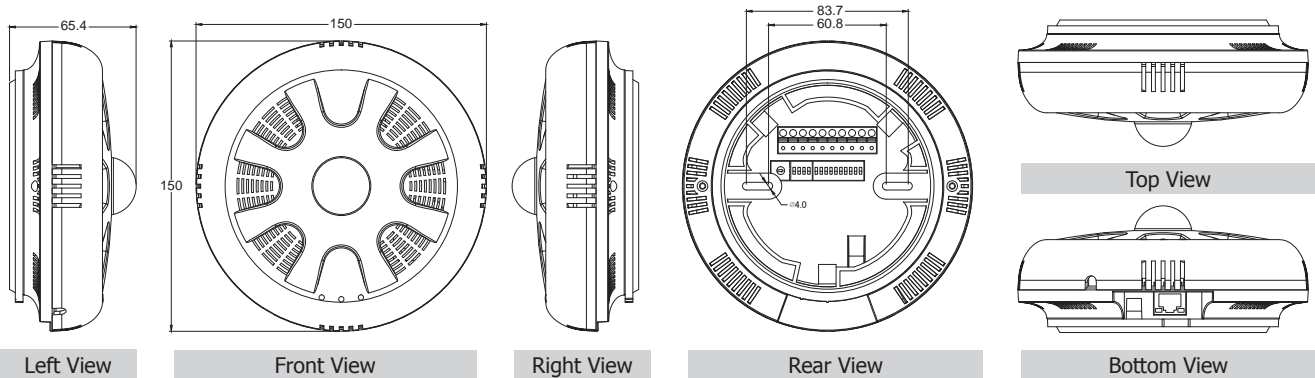
③ Turn the cover clockwise



④ Lock the cover in place



■ Dimensions (Units: mm)



■ Ordering Information

PIR-230-E	PIR Motion Sensor, Temperature and Humidity Sensor Module(Ethernet)
PIR-230-BLE	PIR Motion Sensor, Temperature and Humidity Sensor Module(Bluetooth)
PIR-230-WF	PIR Motion Sensor, Temperature and Humidity Sensor Module(WiFi)
PIR-230-E	Microwave Motion Sensor, PIR Motion Sensor, Temperature and Humidity Sensor Module(Ethernet)
RPIR-230-BLE	Microwave Motion Sensor, PIR Motion Sensor, Temperature and Humidity Sensor Module(Bluetooth)
RPIR-230-WF	Microwave Motion Sensor, PIR Motion Sensor, Temperature and Humidity Sensor Module(WiFi)