

# PIR-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
- Compatible with IEEE802.11b/g/n standards (PIR-230-WF Only)
- Support infrastructure and limit-AP modes for wireless networks (PIR-230-WF Only)
- Ceiling or Surface-Mount Design



#### Introduction.

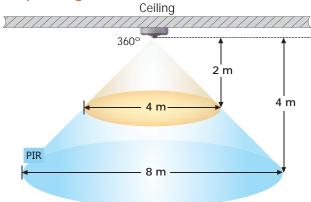
PIR series modules have the ability to detect infrared waves generated by the human body within a diameter of approximately 8 meters, with a coverage area of 360° for indoor motion detection. The modules can be configured to automatically switch on a light if motion is detected. The modules also contain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

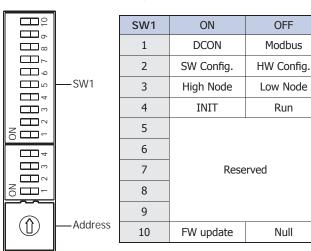
#### Applications -

- 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

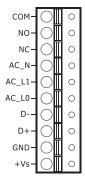
## Operating Distance



#### DIP Switch Settings -



#### Pin Assignments.



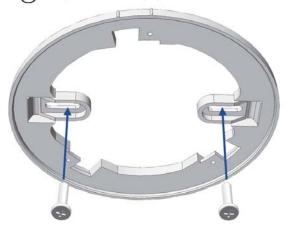
# ■ Specifications

Model	PIR-230-E	PIR-230-BLE	PIR-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	Hardwar	e: 2 modes(Dawn and Dust) / Soft	tware: 5-step
Detection Height		4 m Max.	
Motion Detection Field of View		360°; 8 m Diameter Max.	
Occupancy Detection Field of View		<u> </u>	
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		20.5 C (at 0 to 00 C)	
Range		0 to 100% RH	
Resolution			
Accuracy	0.01% RH ±5% RH		
,		±3% KП	
Digital Input Channels		2	
	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	
Туре	Power Relay, Form C		
Max. Load Current		NO: 10 A @ 250 VAC	
Lond Wattage	NC: 6 A @ 250 VAC  Incandescent Bulb: 1500 W Max.; Fluorescent Lamp: 300 W Max.		
Load Wattage	Tricaridesceric	Bulb. 1300 W Max., Fluorescent L	anp. 500 W Max.
Communication			- 2FF
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/Pol	
Wireless Interface	-	Bluetooth	Wi-Fi
Supported Standard	<del>-</del>	BT 4.0	IEEE 802.11 b/g/n
Wireless Mode	<del>-</del>	Slave	Infrastructure/Limited AP
Wireless Security	-	AES 128	WEP, WPA ,WPA2
Transmission Range	-	20 m (LOS)	50 m (LOS)
LED Indicators			
LED Indicators	Yes,1 as Pov	ver/Communication Indicator. 1 as	Alarm Indicator.
EMS Protection			
ESD (IEC 61000-4-2)	±4 kV Cont	act for each Terminal, ±8 kV Air fo	or 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
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	
	-30 to +80°C		
Storage Temperature		-30 to +80°C	



#### Mounting \_\_\_\_\_

### 1 Align the locking guides



# 3 Turn the cover clockwise



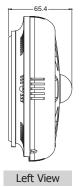
## 2 Attach the mounting plate

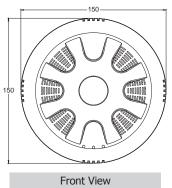


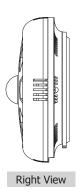
# 4 Lock the cover in place

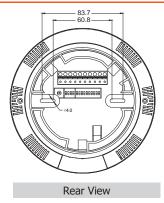


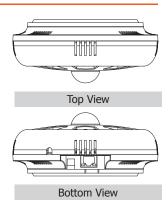
## ■ Dimensions (Units: mm)











## 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)

#### Accessories —

EWB-C150	External Wall Box for PIR-200 series
4PCA-RJ45-04	RJ45 Cable, Male-Female, 30cm