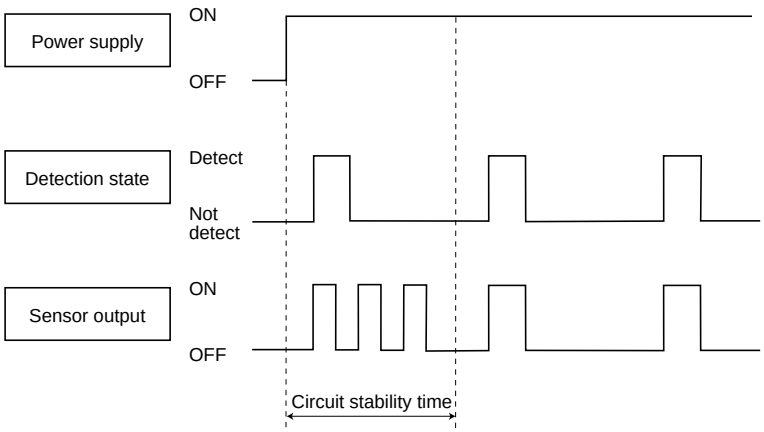
2) Analog output

Items		Symbol	Specified value	Measured conditions
Reted operating voltage	Minimum Maximum	Vdd	4.5 V DC 5.5 V DC	
Reted consumption current	Typical Maximum	Iw	0.17 mA 0.3 mA	Iout = 0
Output current	Maximum	Iout	50 µA	
Output voltage	Minimum Typical Maximum	Vout	0 V 2.5 V Vdd	
Output offset average voltage	Minimum Typical Maximum	Voff	2.3 V 2.5 V 2.7 V	Steady-state output voltage when not detecting
Steady-state noise	Typical Maximum	Vn	130 m Vp-p 300 m Vp-p	
Circuit stability time	Typical Maximum	Twu	7 s 45 s	

Note: To set to the same detection performance as the digital type, set the output voltage to the offset voltage (2.5V) ±0.45V (i.e. 2.95V or more and 2.05V or less).

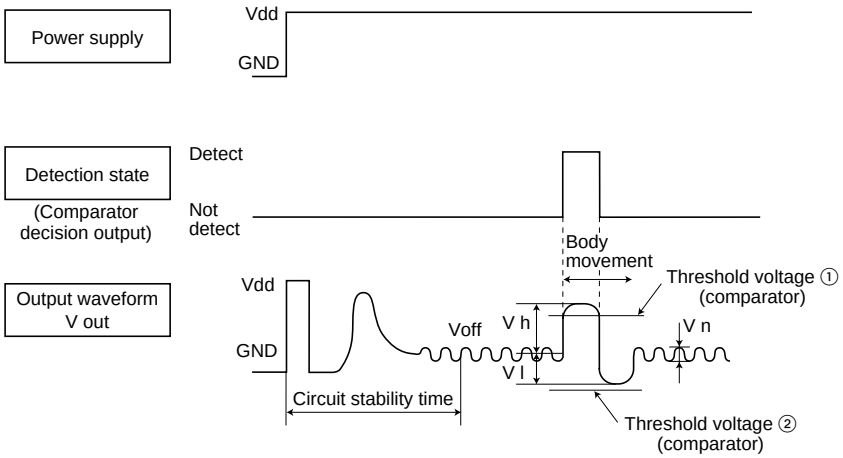
[Timing chart]

1) Digital output



Remark: Circuit stability time: 45s max. (45s max. for the 10m detection type)
While the circuitry is stabilizing after the power is turned on, the sensor output is not fixed in the “on” state or “off” state. This is true regardless of whether or not the sensor has detected anything.

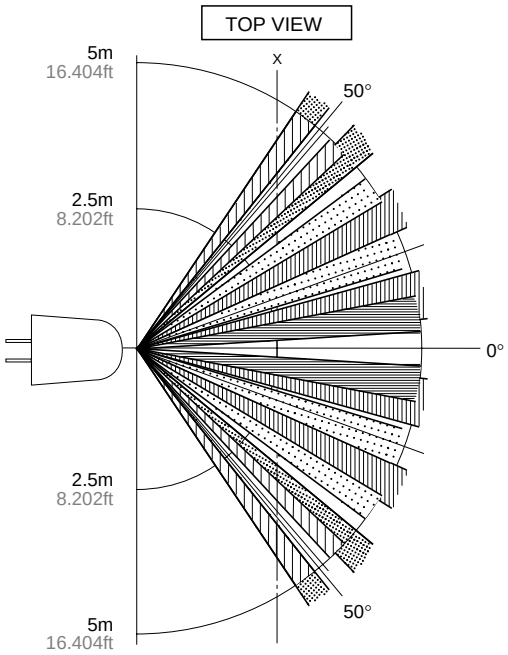
2) Analog output

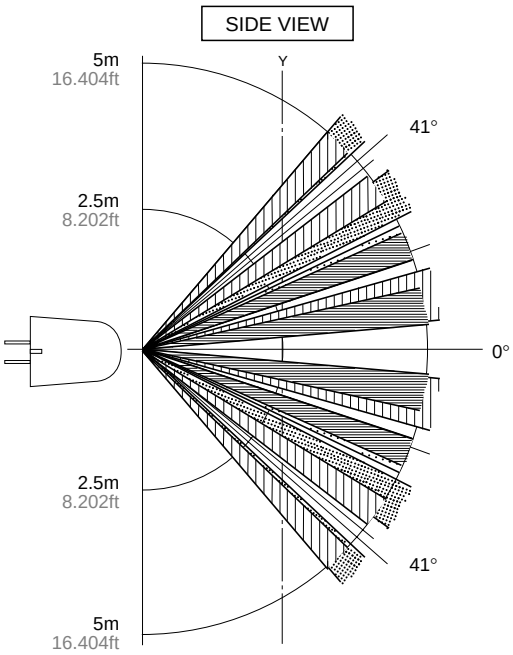


Remark: Circuit stability time: 30s max.
While the circuitry is stabilizing after the power is turned on, the sensor output is not fixed in the “on” state or “off” state. This is true regardless of whether or not the sensor has detected anything.

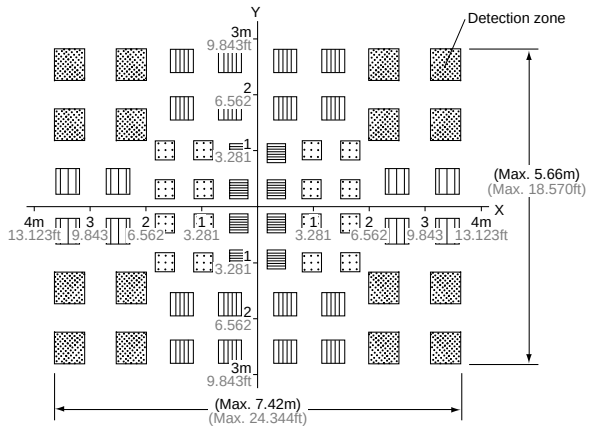
DETECTION PERFORMANCE

1. Standard detection type



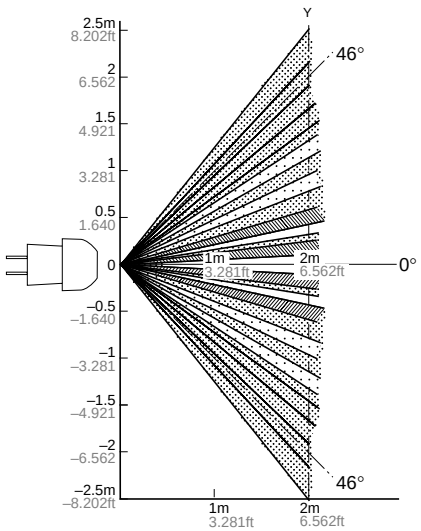


X-Y cross section

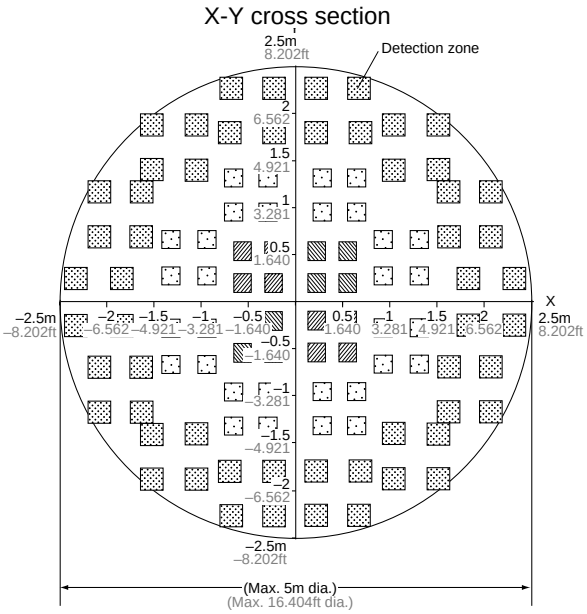


Remarks: 1. The X-Y cross-sectional diagram shows the detection area.
2. The differences in the detection zone patterns are indicative of the projections of the 16 lenses with single focal point and with five optical axes. An object whose temperature differs from the background temperature and which crosses inside the detection zone will be detected.

2. Slight motion detection type



X-Y cross section



Remarks: 1. The X-Y cross-sectional diagram shows the detection area.
2. The differences in the detection zone patterns are indicative of the projections of the 26 lenses with single focal point and with three optical axes. An object whose temperature differs from the background temperature and which crosses inside the detection zone will be detected.