



Location of installation

- * Install the detector so that the majority of target activity is across the detection pattern.
- * The mounting height should be between **2.3m to 4.0m (7.6 to 13ft.)**.
- * Mount the unit on a wall or other solid surface. An unstable installation could be a cause of false alarms. Do not install on poles or fences where it is unstable.
- * Direct or reflected sunlight on the face of the detector can cause false alarms. Set the detection area so it is not effected by direct sunlight, or use the optional **Sun hood (SIP MINIHOOD or SIP MIDIHOOD)** to help avoid this problem.
- * Install the REDWALL SIP series away from objects which can block the detection areas.

Confirm the detection area can be covered by a camera

* Mismatching the detection area and camera views means that operators can not see the crucial image on the monitor screen. The detection area should be within camera view.

















To reduce the risk of tampering or vandalism:

- Do not install the detector so that the intruder can access the detector from outside its detection area.
- Install the detector at proper installation height.

If the unit is installed too high, there will be dead spots which could result in missed alarms. For example, if the SIP-5030 is installed at 26ft. (8m), there will be some dead spots where the unit can not detect people.

Also, at a too low position, the detector will be too sensitive (objects appear larger to the detector) and will cause false alarms.

Do not install the unit too high!

The detector should be installed at 7.6 to 13ft. (2.3 to 4m).

If the unit installed too low, an intruder can access the detector easily. When this exists, the unit should be installed at a higher position within the rated range.











Matching Camera Views

If the camera's field of view can not cover the whole detection area, add another camera to cover the complete zone.









Camera Lens Guide

			Angle	Object Target	Camera			
	Range	Width	Approx	Height	Image Sensor (CCD Size)			
	M (ft.)	M (ft.)	Degree	M (ft.)	Lens Focal Length and Angle			
Redwall					1/4″	1/3″	1/2"	Degree
SIP-3020	30 (90)	20 (65)	37	1.6 (5.2)	5mm	7mm	9mm	37
SIP-4010	40 (130)	10 (33)	14	1.6 (5.2)	7mm	8mm	10.5mm	28
SIP-404	40 (130)	4 (13)	6	1.6 (5.2)	7mm	8mm	10.5mm	28
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SIP-5030	50 (165)	30 (100)	33		9mm	14mm	18mm	33

* SIP- 5030 The above lens selection can cover whole detection area, but the target height in screen will be 7%







Flexible and cost effective installation

1.POE/IP connection 2.Alarm I/O connection with Pre-installed camera (either analog or IP)

System diagram 1 – POE/IP connection



Note: PoE Transceiver for non-IP Optex sensors

- PoE Plus splitter functions
 - IEEE 802.3at / IEEE 802.3af compliant
 - DC outputs (24vDC at 0.8A)
 - DC outputs (12vDC at 0.1A)
- Ethernet converter / Pass-through selectable
- Ethernet converter
 - Signals can be converted into Redwall Event Codes via TCP/IP or UDP
 - Programmable 5-input NC/NO
 - 10Base-T







System diagram 2 – Pre-installed camera connection





System diagram 3 – Wireless ready connection

