

CROW™

SRX-1000

专业红外与微波双鉴探测器
(带常开/常闭输出)
(与/或逻辑报警模式可选)




ELECTRONIC ENGINEERING LTD.
安装说明
P/N: 7101032 Rev. E A.Y.

SRX - 1000M 特性
新一代专业性红外&微波双鉴探测器。

- 独特的双元红外传感器、精细的透镜设计，确保低误报率
- 微波探测基于多普勒原理
- 采用 VLSI 大范围集成移动分析技术
- 常开 / 常闭输出
- 与 / 或模式可选，用 JP2 跳线设置
- 安装高度要求宽松，从 1.5 米到 3 米均可
- 安装方便，可以采用支架安装
- 微波灵敏度可调
- 双向温度补偿
- 下视窗采用反射型衍射透镜设计
- 抗环境干扰能力强

SRX-1000 是一款红外与微波双鉴探测器。采用微处理器对红外及微波探测信号进行分析，大大地降低了误报率。分析技术采用了 VLSI 大范围集成技术，确保高可靠性。

PIR 红外 & MW 微波灵敏度 调整-由防护范围而定 (见图.4)

“MW”微波旋钮
旋钮处于中间位置时，探测距离为 15 米，最小为 7 米。
顺时针旋转可以增加距离，逆时针则减小。

“PIR”红外旋钮
使用“PIR”旋钮调整红外范围从 68% 到 100% (出厂设置为 84%)。顺时针旋转可以增加距离，逆时针则减小。

安装探测器

选择防护较容易被入侵经过的地点。(我们建议选择角落)。参见防护区图样图: 5-9。双元红外传感器会探测到横切探测区域的移动; 对于朝向探测器的移动探测的灵敏度会稍低一些。

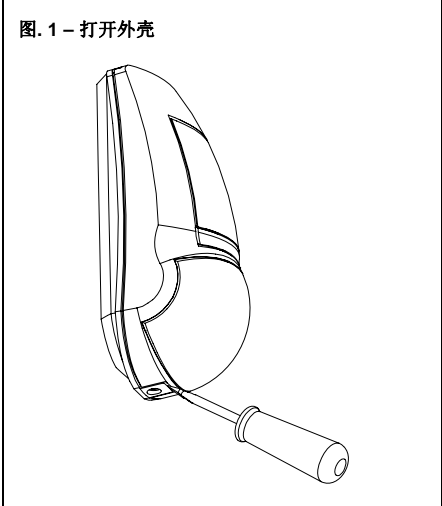
SRX-1000 双鉴探测器在干扰少, 稳定的环境中表现最佳。

避免选择以下类型的区域

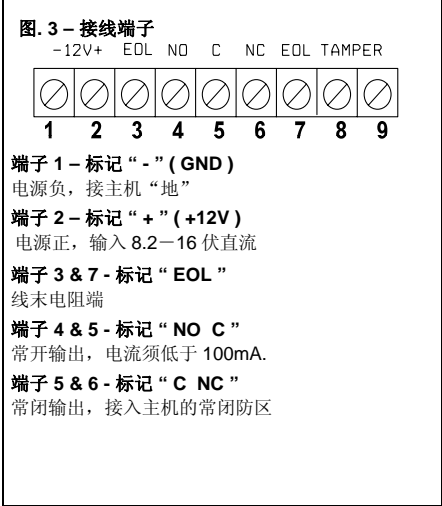
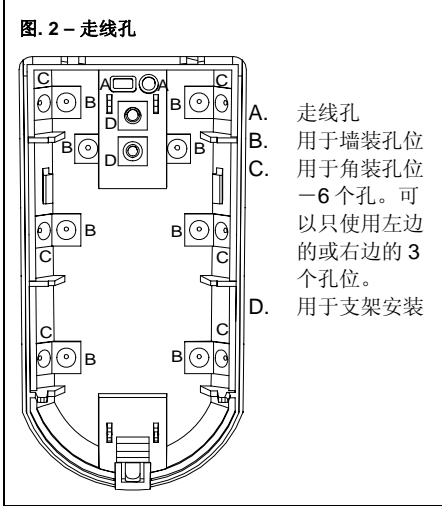
- * 被阳光直射
- * 面对区域可能会有快速的温度变化
- * 灰尘大或气流大的区域
- * 朝向金属门

注意: 推荐安装高度为 2.1 米 (1.5 米到 3.0 米均可)。

LED 指示灯 (图.4)
黄 LED - MW 触发
绿 LED - PIR 触发
红 LED - 报警



1. 用起子打开外壳 (图 1)
2. 取下 PCB 电路主板
3. 打穿线孔
4. 走好线缆后, 将底壳固定于安装位置上, 可以选择适当的安装支架
5. 重新装好 PCB 电路主板
6. 参见图 3, 将线缆接入接线端子
7. 重新装好外壳



端子 8 & 9 - 标记 “TAMPER”

有必要的话, 可以将防拆端接入报警主机的一个 24 小时常闭防区, 一旦探测器外壳打开, 主机就立即有产生报警。

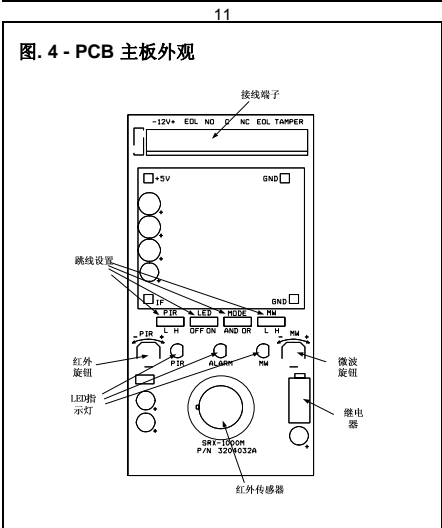
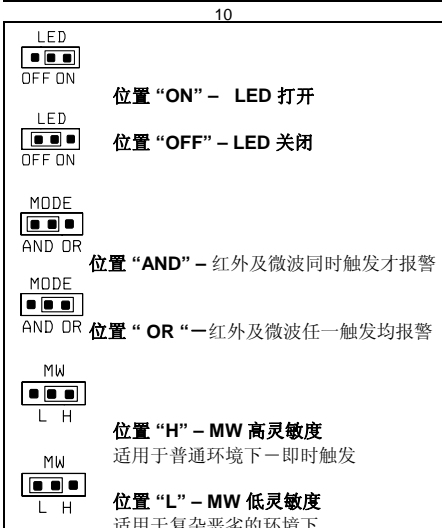
线缆需求
使用下表来选用线缆

线缆直径:	mm .5	.75	1.0	1.5
线缆型号:	# 22	20	18	16
线缆长度:	m 205	310	510	870
	ft. 800	1200	2000	3400

跳线设置 (见 图. 4)

PIR
 L H
 位置 “H” - PIR 红外高灵敏度
适用于稳定的环境下。

PIR
 L H
 位置 “L” - PIR 红外低灵敏度
适用于复杂恶劣的环境下



探测区域调整

要调整微波的探测区域, 需要先了解屋内空间的大小 (室长及探测角度)。

根据长度及角度, 对照下表 1, 选择 X/H 的大概参考值 (最大长度为 30 米), 然后使用下列公式:

$$T = ((s/x-6)/2.4)+1$$

T - 旋钮角度位置 (时钟时刻)
s - 室内长度 (探测区域)
x - X/H 参考值在 MW 图 (表 1)

MW 旋钮 (见图. 4) 顺时针旋转会增加探测范围; 逆时针旋转会减少。

测试流程

通电 12V 后会有一分钟时间预热。测试前，保证无人在防护区域内。

步行测试

1. 打开前盖，设置 LED 开关为 ON。
2. 重新装好探测器
3. 慢慢的步行经过防护区域
4. 观察触发报警时红灯亮起
5. 每次测试之间，间隔 5 秒。
6. 在步行测试结束后，重新将 LED 灯开关设置为 OFF。

注意:

步行测试至少一年要进行一次，以确保探测器工作正常，且探测范围正常。

图. 6 - 幕帘镜片

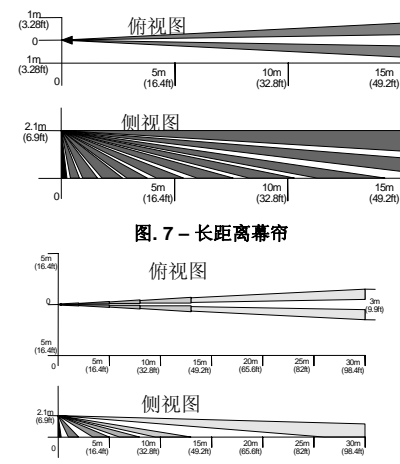
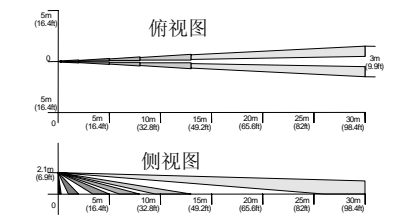


图. 7 - 长距离幕帘



更换镜片

1. 用一字起子开探测器外壳
2. 用一字起子撬开镜片
3. 选择要更换的镜片，注意安装方向（大同心圆区位于底部）
4. 安好新镜片，见图 10
5. 盖好外壳

注意

当使用防宠物镜片时，下视窗的反射镜面需要移除，并换上随包装配备的黑色毛镜面。（随防宠物镜片配备）。

技术参数 (续.)

工作温度	-20°C 到 +50°C(+4°F 到 +122°F)
RFI 防护	30V/m 10 - 1000MHz
EMI 防护	50,000V 瞬时
可见光防护	可抗 2.4 米外卤光灯或反射光
MW 频率	10.525 GHz 10.687 GHz 9.9 GHz
微波频率调整	+/-3MHz
外形尺寸	137mm x 70mm x 53mm (5.3" x 2.8" x 2.1")
重量	130 克 (4.6 oz)

CROW 保留更改产品参数而不另行通知的权利。

镜片-各种类型及参数

范围	广角	长距离幕帘	防宠物	幕帘
	105° 18m x 18m	30m x 2m	18m x 18m	105° 15m x 1m
	±10%	±10%		

全部探测分区数 52* 12 18 22
 广角情况
 * 18 个 远距离, 16 个 中等的, 10 个 近距离, 6 个 最近的距离, 2 个 下视分区。

广角 & 防宠物镜片有效区域

0m - 7m	7m - 10m	10m - 12.5m	12.5m - 16m	16m - 18m
105°	100°	85°	75°	70°

注意: 以上为环境温度为 20°C 时的数据, 假设所以灵敏度都调到最高。

图. 8 - 防宠物红外+微波图

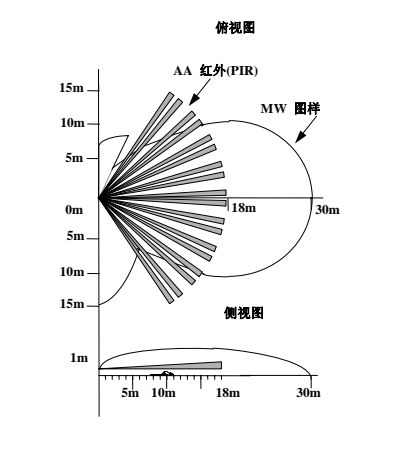
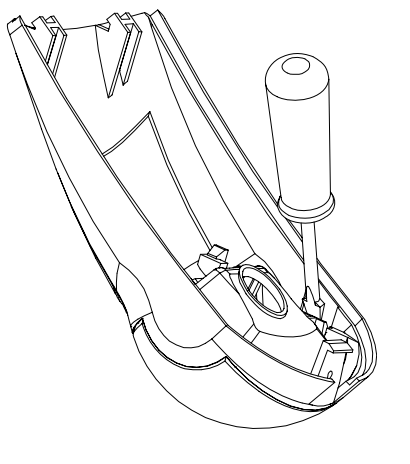


图. 10 - 更换镜片



CROW ELECTRONIC ENGINEERING LTD. ("Crow") - WARRANTY POLICY CERTIFICATE
 This Warranty Certificate is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Crow or from its authorized distributor.
 Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the last day of the week and year whose numbers are printed on the printed circuit board inside these products (hereunder the "Warranty Period").
 Subject to the provisions of this Warranty Certificate, during the Warranty Period, Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are from time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period.
 All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Crow for repair or replacement shall be borne solely by the Purchaser.
 Crow's warranty under this Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (d) failure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions.
 There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereof.
 This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the Purchaser in connection with the products, including without limitation - for defects or malfunctions of the products. This Warranty Certificate replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise.
 In no case shall Crow be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Crow or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Crow does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection.
 Purchaser understands that a properly installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result.
 Consequently, Crow shall have no liability for any personal injury, property damage or any other loss based on claim that these products failed to give any warning.
 If Crow is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Crow's maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Crow.

图. 5 - 广角 PIR + MW 探测图

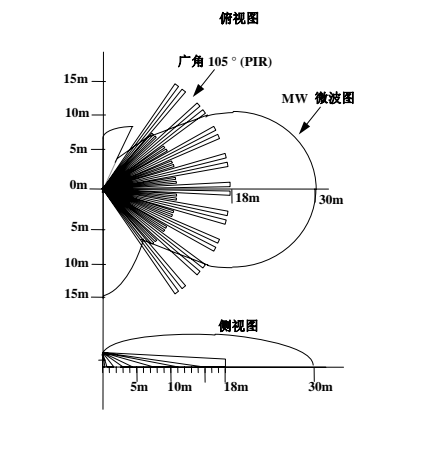


图. 9 - MW 微波图

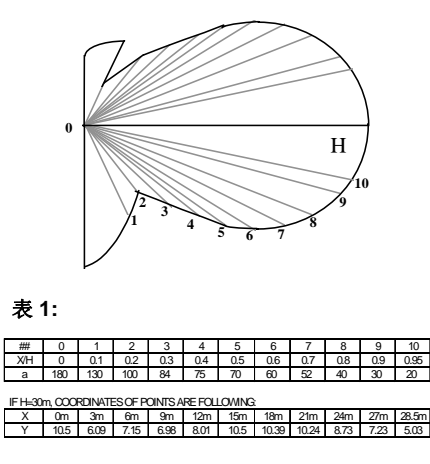


表 1:

#	0	1	2	3	4	5	6	7	8	9	10
X/H	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95
a	180	130	100	84	75	70	60	52	40	30	20

IF H=30m, COORDINATES OF POINTS ARE FOLLOWING:

X	0m	3m	6m	9m	12m	15m	18m	21m	24m	27m	30m
Y	10.5	6.09	7.15	6.98	8.01	10.5	10.39	10.24	8.73	7.23	5.03

技术参数

探测途径	二元红外 PIR & 微波
灵敏度	温差在 1.6°C 于 0.6 m/sec
探测速度	0.3 - 1.5 米/秒 (1 - 5 ft/sec)
电源波动范围	最大允许 12V 基准下 2.4Vdc 波峰波动
电源输入	8.2 到 16 Vdc
电流消耗	触发: 25.5 mA
待机	16.5 mA
温度补偿	双向
报警持续时间	1-2 秒
报警输出	N.C 28Vdc 0.1 A 带 10 Ohm 线阻
防拆开关	N.C 28Vdc 0.1 A 带 10 Ohm 线阻
预热时间	1 分钟
LED 指示灯	预热及自检期间黄灯闪 报警时红灯亮 红灯: 报警 绿灯: 红外触发 黄灯: 微波触发

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 These instructions supersede all previous issues in circulation prior to July 2005.