

SRDT-15

专业红外及微波探测器



ELECTRONIC ENGINEERING LTD.

安装指导

P/N: 7121287 REV.E A.Y.

SRDT-15 特性

新一代专业性双鉴移动探测器。

- 二元红外传感器、性能卓越的镜片，以及低误报率
- 微波探测基于多普勒技术
- 微波探测元带有带状天线
- 大范围集成技术 VLSI 及移动速度分析
- 与和或模式选择
- 安装高度要求宽松
- 安装方便，可配合支架
- 双向微波灵敏度调整
- 双向红外灵敏度调整
- 双向温度补偿
- 抗环境干扰能力强

SRDT-15 为红外及微波双鉴探测器，微波元基于多普勒原理。

采用微处理器对红外及微波探测信号进行分析，红外元专门采用 ASIC 集成技术，确保低误报率。

探测器安装

选择防护一些较易被侵入的地点。（我们建议安装在角落）。对照图 5、6 的图谱。二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。

SRDT-15 双鉴探测器在干扰少，稳定的环境中表现最佳。

注意：推荐安装高度为 2.1 米（范围为 1.5 米到 3.0 米）

避免选择以下类型的区域

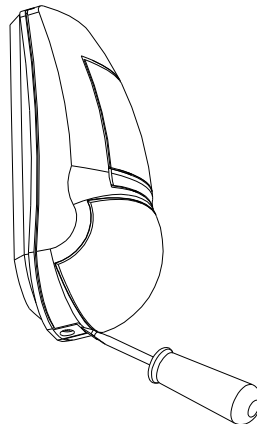
- * 被阳光直射
- * 面对区域可能会有快速的温度变化
- * 灰尘大或气流大的区域
- * 朝向金属门

线缆需求

使用下表来选用线缆

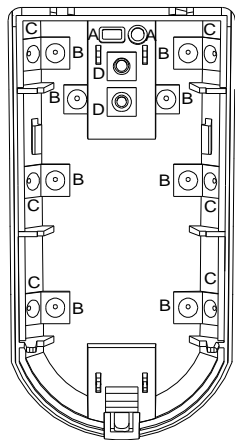
线缆直径:	mm	.5	.75	1.0	1.5
线缆型号:	#	22	20	18	16
线缆长度:	m	205	310	510	870
	Ft.	800	1200	2000	3400

图. 1 - 打开前盖



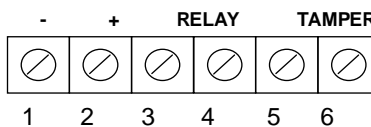
1. 用一字启扭开螺丝后，打开外壳（图 1）
2. 退出 PCB 主板
3. 打穿线孔
4. 穿好线后，将底座固定在墙面上，可以采用支架
5. 重新装入 PCB 板
6. 参见图 3，将线缆接入端子
7. 盖好外壳，扭好下端固定钮。

图. 2 - 线孔



- A. 走线孔
- B. 用于墙装孔位
- C. 用于角装孔位
— 6 个孔。可以只使用左边的或右边的 3 个孔位。
- D. 用于支架安装

图. 3 - 接线端子



端子 1 - 标有“-” (GND)

电源负，接主机“地”

端子 2 - 标有“+” (+12V)

电源正，输入 8.2-16 伏直流

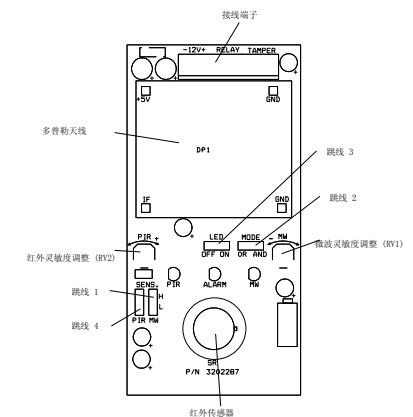
端子 3 & 4 - 标有“RELAY”

报警输出端，接入主机常闭防区。

端子 5 & 6 - 标有“TAMPER”

有必要的，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。

图. 4 - PCB 主板外观



微波灵敏度调整

跳线“JP1”- 根据环境设置微波灵敏度

位置上 - “H” - 高灵敏度

适用于普通环境 - 立即探测

位置下 - “L” - 低灵敏度

适用于复杂的环境

旋钮“RV1”- 根据防护范围进行调节

旋钮刻度“中间”时探测范围为 15 米，“min”时为 7 米。“max”刻度只能配合长距离透镜使用。

范围尺寸会随安装高度及空间大小变化

红外灵敏度调整

跳线“JP4”- 根据环境调整红外灵敏度

位置上 - “H” - 高灵敏度

用于稳定的环境。

位置下 - “L” - 低灵敏度

用于复杂恶劣的环境

旋钮“RV2”- 根据防护范围进行调节

使用 RV2 可能调节探测范围从 68% 到 100% (出厂设置为 84%)。顺时针旋转为增加，逆时针旋转为减小。

在安装安装后，建议进行步行测试以
获得最佳的效果

报警模式设置

跳线“JP2” OR 或 - AND 和
位置左“OR”

当红外或微波任一单元发生报警时，探测器发生报警

有效防护范围为红外或微波最远的距离

位置右“AND”- 当红外及微波同时报警时，探测器才发生报警

有效防护范围为红外及微波范围的交集

改变设置后，需要重新通电才能起作用

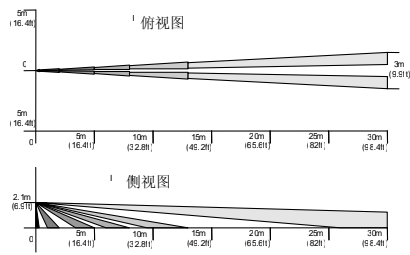
LED 打开/关闭 设置 - 跳线 “JP3” (图.4)

位置 On (右) - LED 打开
红 LED 灯会在报警时亮起
Is in alarm condition.
位置 Off (左) - LED 关闭
LEDS 灯关闭.

注意: 跳线 “JP3” 的状态并不会影响继电器的状态。
当探测到入侵时, LED 灯会亮起, 并且在 1.6 秒内继电器动作。

LED 指示灯(图.4)
黄灯 - MW 微波触发
绿灯 - PIR 红外触发
红灯 -报警

图. 6 - 长距离幕帘镜片



镜片-各种类型及参数

范围	广角	长距离幕帘	防宠物	幕帘
	18m x 18m (60ft x 60ft) ±10%	30m x 2m (100ft x 6.3ft) ±10%	18m x 18m (60ft x 60ft)	15m x 1m (50ft x .3ft)

全部分区 52° 12 18 22
* 18 长距离, 16 中等的, 10 短距离,
6 最近的距离, 2 下视分区.

更换镜片

1. 用一字启打开探测器外壳
2. 用一字启撬开镜片
3. 选择要更换的镜片, 注意安装方向
4. 安好新 镜片
5. 盖好外壳

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
MW 频率	2.45 GHz
MW 输出	min + 5 dBm IERP
MW 调和	-20 dBm
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。

测试流程.

通电后会有一分钟时间预热。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。

防护调整

在调整 MW 微波范围前, 需要先了解房间的尺寸 (长度及探测角度)。

多普勒图见图 7 及 18 页的表 1

, H 处为 -多普勒最大范围;

- 分区数;

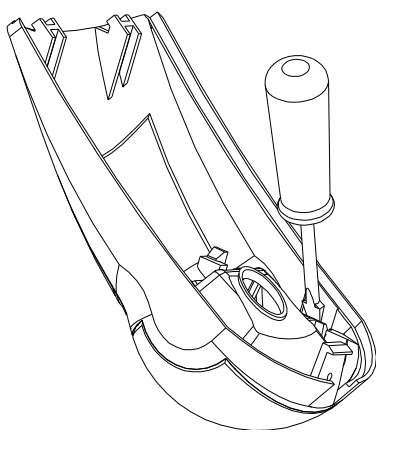
a - 角度;

X, Y - 大概坐标.

旋钮 RV1(图. 4)调整范围从 30% 到 100% (出厂设置为 70%)。顺时针旋转可以增加范围, 逆时针减少。

最少距离处为 6 米 - 8 米。

图. 8 - 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 红外及微波图样

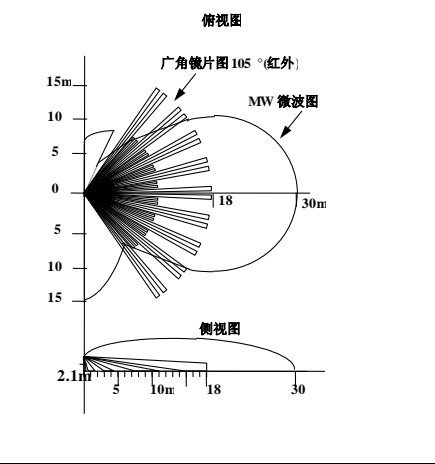


图. 7 - MW 微波图

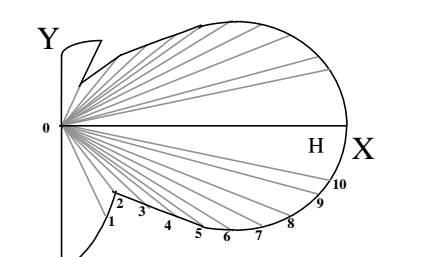


Table 1:

##	0	1	2	3	4	5	6	7	8	9	10
a	180°	130°	100°	84°	75°	70°	60°	52°	40°	30°	20°
X	0	3	6	9	12	15	18	21	24	27	28.5
Y	10.5	6.09	7.15	6.98	8.01	10.5	10.39	10.24	8.73	7.23	5.03

X, Y 表示在 H=30 米时, 坐标的大约尺寸

技术参数

探测途径	双元红外及微波
电源输入	8.2 到 16 Vdc
电流	触发: 25.5 mA
待机	16.5 mA
温度补偿	有
报警区间	2 +/- 1 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 August 2007.