REDSCAN™ mini

Indoor / Outdoor RLS-2020S

The REDSCAN™ mini RLS-2020S is an IP/PoE laser scan detector for outdoor and indoor use, providing a detection area up to 20 x 20 m (65 x 65 ft.) and up to 30 m (100 ft) radius at 95° (with the extended range mode).

The RLS-2020S is a compact and highly customizable detector that helps protect in an unobstructed way, houses, buildings, controlled areas by creating an invisible laser wall or plane and detecting any intrusion breaching it.

For indoor applications, the RLS-2020S can be set up in high resolution mode which enables very small object detection; it can also be set up in “indoor throwing mode” allowing to detect an object been thrown into a controlled area.

In addition to dry contacts, the RLS-2020S generates unique REDWALL Event Codes that are already integrated with most Video Management Systems (VMS) and Physical Security Information Management (PSIM) platforms, allowing it to trigger events, camera pre-sets and tracking through zones.

FEATURES

- 20m x 20m (65ft x 65ft), 95 degree detection area
- 30m (97.5ft) radius with 95 degree range extension mode
- Vertical and Horizontal detection modes
- Multi-angle Adjustment Shell Structure (M.A.S.S.)
- Unique detection algorithm
- Automatic area setting function
- Advanced area setting
- 4 adjustable detection areas on IP connection
- Total 3 outputs can be assigned for analog connection
- Supporting multiple network protocols.
- Anti-rotation, Anti-masking, Soiling, Trouble, Tamper, DQ outputs (Selectable)
- Compatible with Power over Ethernet
- Paintable housing
- Indoor and Outdoor use
- Indoor high resolution mode
- Indoor throw-in mode
- Area selection
- Environmental disqualification circuit (D.Q.)
- Integration to external devices and applications with REDWALL Event Code.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>RLS-2020S</th>
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<tbody>
<tr>
<td>Installation location</td>
<td>Indoor/Outdoor</td>
</tr>
<tr>
<td>Detection method</td>
<td>Infrared Laser Scan</td>
</tr>
<tr>
<td>Laser protection class</td>
<td>Class 1</td>
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<tr>
<td>Power Input</td>
<td>10.5 to 30 VDC, PoE (IEEE802.3 af/at compliant)</td>
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<tr>
<td>Current draw</td>
<td>500 mA max, (12 VDC), 250 mA max, (24 VDC), 6W max, (PoE)</td>
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<tr>
<td>Mounting method</td>
<td>Ceiling mount, Wall mount, Tripod mount, Pole mount (Optional), Recess mount (Optional)</td>
</tr>
<tr>
<td>Detection area</td>
<td>20 x 20 m, (approx. 65 x 65 ft), 95 degrees / Detection range expansion enable radius max. 30 m (approx. 97.5 ft), Area 96 degrees</td>
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<tr>
<td>Detection time</td>
<td>0.25 degree / within 75msec to 15 minutes (for indoor mode and outdoor mode)</td>
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<td></td>
<td>0.25 degree / within 25msec (for indoor throw-in mode), 0.125 degree / within 100msec to 15 minutes (for Indoor high resolution mode)</td>
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<tr>
<td>Mounting height (Vertical)</td>
<td>Indoor: 2 m (6.7 ft) or higher</td>
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<td>Outdoor: 4 m (13 ft) or higher (Recommended)</td>
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<tr>
<td>Communication port</td>
<td>Ethernet RL-45 10BASE-T/100BASE-TX (Auto negotiation)</td>
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<tr>
<td>Network protocol</td>
<td>TCP/IP, UDP, HTTP, RTSP, RTMP, SSL, HTTPS, FIP, SMTP, FTP, DNP, ICMP, ARP</td>
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<tr>
<td>Output</td>
<td>3 outputs, 28 VDC 0.2A max, N.O./N.C. Selectable</td>
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<td></td>
<td>(3 from Master alarm, Zone outputs, Trouble, Tamper, D.Q.)</td>
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<tr>
<td>Input</td>
<td>1 Non-voltage contact input</td>
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<tr>
<td>Alarm period</td>
<td>Approx. 2 sec delay timer</td>
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<tr>
<td>Operating temperature</td>
<td>-40 to 60 C degrees (-40 to 140 F degrees)</td>
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<tr>
<td>IP rating</td>
<td>IP65</td>
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<tr>
<td>Dimensions (HxWxD)</td>
<td>146 x 160 x 160 mm (5.8 x 6.3 x 6.3 inch)</td>
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<tr>
<td>Weight</td>
<td>1.0 kg (2.2 lb)</td>
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*Specifications and design are subject to change without prior notice.
**EASY SETUP AND CONNECTION**

PoE enabled Redscan mini generates Redwall Event Codes (REC) to all compatible VMS and NVR, through a single cable.

**INSTALLATION EXAMPLE**

**CEILING MOUNT**

**WALL MOUNT**

Multi-angle Adjustment Shell Structure allows flexible installation on ceiling or wall for vertical or horizontal detection area.

OPTION

Optional Recess mount bracket RLS-RB

**APPLICATIONS**

**Art protection at Museum**

**Protecting controlled areas**

**Wall protection (outdoor) at Warehouse**

**DIMENSIONS**

**OPTION**

LAC-1 : Laser Area Checker
RLS-PB : Pole mount Bracket
RLS-RB : Recess mount bracket
RLS-LW : Laser Window

Unit:mm/inch

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