(No. 591855-4)



1

Laser Scan Detector This model is UL Listed product. 2-2020

DSCAN

ΰL The comments with "*UL-Number" are UL's requirements and information for using this product. LISTED Software is Ver. 7.x.x. and UL Listed Version is Ver. 7.x. and the part number may consist of x" which delineates minor code error/bug fixes.

FEATURES

* Detection range is 30m (Approx. 100ft.) radius, max. 190 degree

INSTA

- * Selectable horizontal or vertical detection area
- ☆ Fence/Wall top protection mode is new in Ver. 7.1.0.(*UL-2)(*1) * Recognition of the intrusion location which can activate 4
- independent outputs for PTZ control (*UL-1)
- * Flexible and easy setup of the required detection area * Analog (dry-contact) output and IP connection (*UL-3)

*1: The Redscan Manager, optional setup software, provides these functions.

*UL-1: The PTZ camera feature is to be used supplementary only. *UL-2: Fence/Wall top protection mode cannot be used for UL Listed applications.

*UL-3: For UL Listed installation applications, the unit shall be connected to a compatible UL Listed control panel and/or UL Listed burglar alarm power supply.

REDSCAN is an area sensor that configures a fan-like detection area of 30 m (Approx.100 ft.) radius over 190 degrees arc. using laser beams. REDSCAN detects target objects by emitting laser beams at the target and measuring the time required for the emitted beams to be reflected and returned to the detector

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INTRODUCTION

1-1 BEFORE OPERATION

- · Read this instruction manual carefully prior to installation.
- · This manual uses the following warning indications to provide information regarding correct usage of the product to prevent you and other people from being harmed and your assets from being damaged. These warning indications are described below

Ensure you understand these precautions before reading the rest of this manual.

<u>∧</u> Warning	Failure to follow the instructions provided by this warning and improper handling may cause death or serious injury.
▲ Caution	Failure to follow the instructions provided by this caution and improper handling may cause injury and/or property damage.

This symbol indicates prohibition.

The specific prohibited action is provided in and/or around the figure.

This symbol requires an action or gives an instruction.

A Warning Do not use the product for purposes other than the detection of human. Do not use the product to activate a shutter, etc., which may cause an accident. Do not touch the unit base or power terminals of the product with a wet hand (do not touch when the product is wet with rain, etc.). It may cause electric shock. Never attempt to disassemble or repair the product. It may cause fire or damage to the devices. Do not exceed the voltage or current rating specified \sum for any of the terminals, doing so may cause fire or damage to the devices. Ensure the power is turned off before connecting wiring. Confirm the signal name of every terminal to ensure wiring is carried out correctly. Whenever a commercial switching regulator is used, be sure to connect PE (Protective Earth Terminal). Hold the main unit securely when you install or service it. Exercise care not to bump the product against nearby objects or drop it inadvertently. This product is not capable of detecting objects in the dead zone of the laser scan. Do not use this product for an application where it is not capable of covering the detection area required by the task. Please note that the product can malfunction, including producing an irregular output and committing a detection error, if it is exposed to unfavorable environmental conditions such as strong ambient light, electronic noises or mechanical vibrations. A Caution Use of controls or adjustments or performance of Ω procedures other than those specified herein may result in hazardous radiation exposure. Clean and check the product periodically for safe use. If any problem is found, do not attempt to use the product as it is. When disposing of this product, be sure to follow the waste-disposal regulations of the country or region where it is used. This product is intended to detect an intruder(s)

and is not designed to prevent theft, disasters or accidents. The manufacturer shall not be held liable for any damage to user's property resulting from

theft, disasters or accidents.



Installation height: 0.7 m to 1 m (2.3 ft. to 3.3 ft.) _____

Do not install or leave the

Do not use the product in an

*UL-4: When assessing the installation and application, alarms triggered by conditions such as weather, blowing

leaves and bush, or related environmental conditions, etc

It is recommended that the intrusion

detection unit is not to be connected to an alarm initiating circuit but may

if nuisance trips are not tolerable

be connected to a trouble alarm circuit

need to be considered

environment where solvent fumes or corrosive gases are

present.

Install the product so that the detection area is not influenced product in a location exposed by interference from tall grass to heat, vibrations or impacts or tree branches waving in the wind



Do not use this product in environments where there may be oil mist particles which may contaminate the window of the detector; thus causing detection errors and possible corrosion which may lead to product failure.

The symbol " \times " indicates prohibited actions.

Cleaning the Product

Clean the front window on a regular basis using a wet cloth.

A smeared front window can limit the detection area due to the reduced laser sensitivity. In addition, heavy soiling of the window can induce detection errors.



On Safety of Laser

This product is categorized as a Class 1 product in terms of the Safety Standard.

: Max. 0.015 mW (AEL)
: 905 nm
: 4 ns
: 36 μs
: IEC60825-1

Class 1 of the Laser Safety Standard means that the safety of laser products belonging to this class is warranted under normal operating conditions (reasonably predictable operating conditions). The product is marked to indicate that it is laser equipment. No additional safety measures are necessary.

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.

Class 1 laser product

Do not expose your eyes directly to the laser beam.

CE Statement

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. (EN55022)







1-4 INSTALLATION WORK FLOWCHART



2-1 TYPES OF INSTALLATION METHOD



2-2 TYPES OF DETECTION METHOD

Detection method

Vertical Detection Area

The detection method comprises the two modes of operation, Horizontal Detection Area 2 and Vertical Detection Area.

Detection method

H₂

ction Area

Vertical Dete

-Horizontal Detection Area 2

This mode allows setting of a fan-like detection area in the horizontal direction with a maximum radius of 30 m (Approx. 100 ft.), a spread angle of 190 degrees.

This mode detects intrusion into the detection area from any direction.

The Redscan will generate the alarm output for 1 minutes after the initial detection, so long as the detected object stays in the detection area.



-Vertical Detection Area

V

This mode allows setting of a fan-like detection area in the vertical direction with a maximum radius of 30 m (Approx. 100 ft.), a spread angle of 180 degrees.

This mode creates a non detection area, 1.5 m (Approx. 5 ft.) (*1) immediately in front of the unit, in order to avoid possible false alarms caused by birds or obstructions close to the unit. Recommended installation height is from 4 m (Approx. 13 ft.) to 15 m (Approx. 50 ft.).

This mode will detect an object that traverses the detection area. The width of detection area depends on distance from the unit. The maximum width of the detection beam is approx. 260mm (0.87ft.) at 30m (100ft.) distance from the unit.

*1: The Redscan Manager software can change this value or cancel the "non detection area" for specific applications



-Vertical Detection Area when the product is installed at an angle

H2	V	
		1

When you have installed this product at an angle with the optional adjustable angle mounting bracket, the detection area varies as shown below depending on the installation height and angle.



Relationship between "detection distance" and mounting height and mounting angle. See diagram above.

			Mounting angle			
				0°	30°	45°
	4 m	Position		0 (0)	2.3 (7.6)	4.0 (13.1)
		Detection Distance	Walking	59 (195)	59 (195)	59 (193)
ght	(1010.)		Crawling	57 (187)	55 (180)	53 (174)
hei	8 m (26 ft.)	Position		0 (0)	4.6 (15.2)	8.0 (26.2)
tion		(26 ft.) Detection Distance	Walking	58 (190)	57 (187)	56 (182)
alla			Crawling	53 (174)	51 (167)	48 (157)
Inst	12m	Position		0 (0)	6.9 (22.7)	12.0 (39.4)
		Detection	Walking	55 (180)	53 (175)	49 (162)
	(00 11.)	Distance	Crawling	50 (164)	48 (157)	46 (151)

Unit: m (ft.)

Note >>

A running person may not be detected if the mounting angle is 0 degree.

*UL-5: Detection of a crawling or running person is not a feature of UL Listed application.

2-3 AREA SETTING PROCEDURE

The setting procedure comprises two options; P1 and P2. The setting procedure in each mode varies depending on which detection method of either Horizontal Detection Area 2 or Vertical detection Area is selected.

-Horizontal Detection Area 2

Auto

P1 Auto Learning

The area automatically learnt by the sensor within the boundary defined by "Detection distance adjustment".

P2 Auto Tracing

The area automatically learnt by tracing a person walking a boundary within the area set by "Detection distance adjustment".



-Vertical Detection Area

Auto

3

P1 Fixed detection area

The detection area is fixed by the "Area Set" and by the settings of the Size and Offset parameters. The Redscan will ignore "noise" at ground level caused by grass or small changes of the ground shape.

P2 Adaptive detection area

When an object, such as a stack of snow, is in the detection area, the Redscan will recreate the detection area around the object. Similarly, if a hole is created in the snow the Redscan will recreate the detection area to include the hole. This automatic adaptive area has a default value of +/- 1m.



INSTALLATION AND ANGLE ADJUSTMENT

3-1 INSTALLING TO WALL OR CEILING PLANE

1 Remove the cover from the main unit.



2 Remove the mounting bracket from the main unit.



3 Attach the mounting holes template (an accessory) onto the wall or the ceiling plane, and drill 4 mounting holes in it. Drill 2 wiring holes as required. Insert the anchor bolt (an accessory) into the mounting

holes.





Tighten 4 fixing screws for the mounting bracket (accessories).

Cautions>>

When installing the product to the wall, fix the mounting bracket parallel to the ground. If the mounting bracket is set at an angle, the laser beam will not be emitted parallel to the ground, which may result in the non-detection of an intruder. An inclination of 1 degree may vary the shape of the detection area of 30 m (Approx. 100 ft.) ahead by approximately 0.5 m (1.6 ft.).





- 7 See section " 4-1 " and connect the wires to the terminal block.
- 8 It is recommended that the optional Laser Area Checker (LAC-1) is used to adjust the mounting angle to achieve the required detection area. (Refer 3-4)
- 9 See Chapters 5, 6 and 7, make various settings and confirm that the equipment operates correctly.
- **10** The installation work is complete when the various settings and operational check are finished. Mount the cover.



3-2 INSTALLING TO POLE

When installing the product to a pole, use the optional pole mounting bracket (RLS-PB).



Note >>

For detailed handling procedures, see the manual attached to the pole mounting bracket.

3-3 INSTALLING AT AN ANGLE TO WALL, CEILING PLANE OR POLE

When installing the product at an angle to a wall, ceiling plane or pole, use the optional adjustable angle mounting bracket (RLS-SB).

Points >>

The mounting holes for the adjustable angle mounting bracket align with similar holes in the main unit mounting holes indicated on the mounting holes template.



CONFIRMATION OF LOCATION OF 3-4 THE LASER PLANE

It is recommended that the optional Laser Area Checker (LAC-1) is used to confirm the location of the laser plane.

-Horizontal Detection Area

Ensure that the laser beam is hitting the human target between the shoulder and hip line in all of the detection area taking into consideration the possibility that the ground level may not be flat.

-Vertical Detection Area

Adjust the mounting angle so that the laser beam is hitting the ground at the required location.

Note >>

For detailed instructions see the LAC-1 Instruction manual

4 PARTS LAYOUT INSIDE THE COVER AND THEIR FUNCTIONS

4-1 WIRING



Power wires should not exceed the following lengths.

WIRE	Ser	nsor	9 mm
SIZE	24V DC	24V AC	
AWG20 (0.52 mm ²)	120 (394)	60 (197)	Stripped wire length Wires must be stripped back 9 mm
AWG18 (0.83 mm ²)	200 (656)	100 (328)	Use the gauge on the panel for correct measurement.

m (ft.)

*UL-6: UL required the main unit to be connected to a UL listed power supply Class 2, capable of providing a nominal input of 19.2VDC - 30VDC, 400mA and battery standby time of 4 hours.

The equipment shall be installed in accordance with the National Electrical Code, NFPA 70

4-2 SIGNAL OUTPUT

-D.Q. output

	K	Å	ß	
Ę	0	0	0	
D. Q. N. C. COM. N. O.				

The algorithm specific to REDSCAN allows for detection during foggy condisions. However, during severe conditions such as heavy rain, dense fog or snow storms the Environmental DisQualification (EDQ) output is activated. Refer to the end of this manual for the connection example.

*UL-7: D.Q. output shall be connected to a compatible UL Listed control unit trouble circuit

-Alarm output



Upon detecting an intruder, this product outputs the alarm specific to thie general area (Area A1, Area A2, Area B1 or Area B2) where the intrusion happened.

When combined with a CCTV camera monitoring system employing PTZ, this product works dfficiently to provide early detection of intruders.

-Tamper output

0	0
Tamp	er N.C.

This output is enabled when the terminal cover is removed.

	김	
per	N. C.	

-Trouble output

Trouble N.C. COM. N.O.

It is generated when an error has occurred on the sensor

Name	Function	
Anti-masking	It is activated when an obstacle has been placed in front of the sensor in order to block the detection area. It is reset after such obstacles are removed.	
Anti-rotation	It is activated when the area being scanned changes by a significant amount as a result of the unit being rotated from its original settings.	
Soiling of the window	It is activated when the front window is heavily soiled which may induce detection errors. Clean the front window using a wet cloth.	
Sensor error	It is activated when the sensor has detected an internal self check error.	

-Alarm output



The alarm output is generated if an intruder is detected in one or more of the divided areas (Area A1, Area A2, Area B1 and Area B2).

4-3 POWERING ON



4-4 LED FUNCTIONS



-In the normal operation

Symbol Colour	DETECTOR STATUS	
Statua	Yellow	Lit during auto setup of the unit.
Status		(Turned off during normal operation.)
Power	Green	Lit when power is turned on

4-5 INITIALIZATION TO FACTORY DEFAULT



You can restore the sensor to the factory default settings (IP ADDR 192.168.0.126) using the following procedure.

- Turn power on and push and hold down the "Re-set" button within 20 seconds.
- Keep holding the button down until the green power indicator is extinguished.
- Only the "Status" indicator is lit during the initialization.
- When ALL indicators are extinguished, power cycle (off/on) the Redscan.

5 SETTING HORIZONTAL DETECTION AREAS 2

Note >>

The following switch settings of the RLS-3060L can only be changed using the Redscan manager software. Refer to ③ for IP connection and the Help menu of the Redscan Manager software for more details.

5-1 SELECTOR SWITCH OPERATION

-Detection method selection

Select H2 mode using the Redscan manager.

H2

H2

	SELECTOR POSITION	FUNCTION
Function	H1	Not Applicable by this model.
0 H2 O V	H2	It selects Horizontal Detection Area 2. (Factory default)
	V	

-Selecting the Auto mode

V

Auto © P1 © P2	SELECTOR POSITION	FUNCTION
	P1	Turns on the Auto Learning. (Factory default)
	P2	Turns on the Auto Tracing.

-Selecting the detection sensitivity H2

Set the detection sensitivity using the SIZE and SENS buttons as per the following chart.

	SELECTOR POSITION	FUNCTIO	N
	S	Approx. 150 mm (0.5 ft.) or above	This switch
Object Size	М	Approx. 300 mm (1 ft.) or above (Factory default)	the width of the target
	L	Approx. 1000 mm (3.3 ft.) or above	detected.
Ĩ	Н	Approx. 500 mm (1.6 ft.) or above	This switch specifies the
OH OM OL	М	Approx. 1000 mm (3.3 ft.) or above (Factory default)	the object has to move
	L	Approx. 2000 mm (6.6 ft.) or above	considered to be an intruder.

5-2 ADJUSTMENT OF HORIZONTAL DETECTION AREA

-Detection distance adjustment

You can specify the radius in the range of 0 to 30 m. Setting detection distance to 0 m deletes the detection area.

Example: if you specify "Detection distance in Area A: 30 m" and "Detection distance in Area B: 14 m" in a location where the radius is 30 m or more without obstacles within the detection area, the following detection areas will result.

H2

: Detection area





Factory default : 30m (Approx. 100 ft.)

-Offset adjustment

You can reduce the boundary of the detection area using the offset parameter. Use this adjustment if blowing grass or tree bushes might cause a false detection at the edge of the detection area.

You can reduce the boundary of the detection area (toward the sensor) by up to 1 m.

Recommended setting is 10 cm minimum.



5-3 AUTO SETTING OF HORIZONTAL DETECTION AREA

-Function of the detection area setting button



H2 This button starts the auto function of either P1 or

P2 whichever has been selected.

-Setting P1 (Auto Learning)



	Sequence of operation	Status indicator	Time	Action of REDSCAN
1	Click "Area Set" button via Redscan Manager software.	Flashing starts	For 1 second	—
		Fast flashing	For 10 seconds	Scan of the detection area is executed
		ON	For 15 seconds	Scan of the detection area is completed and the data are saved
		Flashing	For 3 seconds	
		OFF	_	Security protection of the detection area is started

Cautions >>

Do not enter the area while the area scan is being carried out. An unwanted object in the area interferes with the correct scanning of the target area.

-Setting P2 (Auto Tracing)

H2





	Sequence of operation	Status indicator	Time	Action of REDSCAN
1	Click "Area Set" button via Redscan Manager software.	Flashing starts	For 1 second	—
		Fast flashing (*2)	For 10 seconds	Scan of the detection area is executed
2 Walking along the		Flash	For 5 minutes	Tracing started
	(*1)	(*3)	(Last 30 seconds)	
	_	ON	For 15 seconds	Tracing is completed and the data are saved
		Flashing	For 3 seconds	
		OFF		Security protection of the detection area is started

- *1: The tracing is automatically ended after 5 minutes. When movement of the target object along the area boundary has finished before this time, you can terminate the tracing without waiting for 5 minutes by clicking "terminate" button on Redscan Manager software.
- *2: Flashes twice a second
- *3: A flashing sequence of flashing twice a second and not flashing for a second is repeated

Cautions >>

Do not enter the area while the area scan is being carried out. An unwanted object in the area interferes with the correct scanning of the target area.

Note >>

Any area left untraced will revert to the Auto learning area settings.

6 SETTING VERTICAL DETECTION AREA

Note >>

The following switch settings of the RLS-3060L can only be changed using the Redscan manager software. Refer to 8 for IP connection and the Help menu of the Redscan Manager software for more details.

V

6-1 SELECTOR SWITCH OPERATION

-Detection method selection

	Select V mode using the Redscan manager.		
	SELECTOR POSITION	FUNCTION	
C HI C H2 C V	H1	_	
	H2	_	
	V	Selects the vertical detection area.	

-Selecting the Auto mod		H2 V	
Auto	SELECTOR POSITION	FUNCTION	
© P1 © P2	P1	Fixed detection area. (Factory default	
	P2	Adaptive detection area.	

-Setting the detection sensitivity

Set the detection sensitivity using the SIZE and SENS buttons as per the following chart.

	SELECTOR POSITION	FUNCTIC	N
	S	Approx. 250 mm (0.8 ft.) or above	This switch specifies the
Object Size	М	Approx. 350 mm (1.2 ft.) or above (Factory default)	height from offset position of the target
	L	Approx. 500 mm (1.6 ft.) or above	object to be detected.
Sensitivity CH OM CL	Н	100 ms or longer. This setting is recommended when the target object can run through the detection area.	This switch specifies the duration during which
	М	150 ms or longer (Factory default)	the target object stays in the detection
	L	200 ms or longer.	area.

6-2 ADJUSTMENT OF VERTICAL DETECTION AREA

H2 V

V

-Detection distance adjustment It can specify the radius in the range of 0 to 30 m.

Setting detection distance to 0 m deletes the area.



Factory default: 30 m (Approx. 100 ft.)



-Offset adjustment

You can reduce the boundary of the detection area using the offset parameter. Use this adjustment if blowing grass or tree bushes might cause a false detection at the edge of the detection area. You can reduce the boundary of the detection area (towards the detector) by up to 1 m.

Recommended setting is 10 cm minimum.



6-3 AUTO SETTING OF VERTICAL DETECTION AREA



	Sequence of operation	Status indicator	Time	Action of REDSCAN
1	Click "Area Set" button via Redscan Manager software.	Flashing starts	For 1 second	_
	_	Fast flashing	For 10 seconds	Scan of the detection area is executed
	_	ON	For 15 seconds	Scan of the detection area is completed and the data are saved
	—	Flashing	For 3 seconds	_
		OFF		Security protection of the detection area is started

Cautions >>

Do not enter the area while the area scan is being carried out. An unwanted object in the area interferes with the correct scanning of the target area.

AREA CHECKUPS

7-1 WALKTEST

H2

Ensure that the detection area has been correctly set by observing the indicators or detection circle on the Redscan Manager software.



-When a detection area has not been correctly set

- Before pressing the detection area setting button, ensure that the detection method switch and the detection mode switch are set to the correct position, respectively.
- 2 Set the detection again with reference to " 5-3 " for the horizontal detection area and " 6-3 " for the vertical detection area.

Caution>>

Conduct walk test at least once a year.

Summary of detection area switch settings

Function	P1	P2
H2	Automatically learns the detection area within the area set by "Detection distance adjustment"	Automatically learns the detection area by tracing a person walking a boundary within the area set by "Detection distance adjustment"
V	Automatically learns the detection area within the area set by "Detection distance adjustment"	Automatically adapts to the changing shape of the ground area below the REDSCAN

7-2 SYSTEM FUNCTION AFTER POWER FAILURE

The REDSCAN setup is not lost after a power interruption.

H2

8 IP CONNECTION WITH REDSCAN

8-1 DEFAULT SETTINGS

- IP address : 192.168.0.126 (Can be changed)
- Subnet mask : 255.255.255.0 (Can be changed)

8-2 REDSCAN MANAGER (Ver.4.0.0.0 or later)

(Optional Setup Software, attached to RLS-AT)

REDSCAN Manager is a software program that allows you to configure various settings easily via a local network when installing the REDSCAN unit or performing maintenance work. REDSCAN Manager can register and manage the REDSCAN unit located within the local network and display the area information and the switch setting information obtained from the REDSCAN unit.

detection area and switch settings and set them back into the REDSCAN unit.

REDSCAN Manager also provides the following useful functions. Selectable application template

*Outdoor (Default)

*Indoor

*Fence/Wall top Protection

Activate / Inactivate functions

*Environmental resistance function

Customize parameters

*Non detection area adjustment in V mode

Redwall Event Code setup *Protocol

*Destination IP address

Note >>

For detailed features and operations, see the help attached to the REDSCAN Manager.

These functions are supported by REDSCAN Manager Ver. 4.0.0.0 or later.

8-3 REDWALL EVENT CODE

REDSCAN generates event codes which can be used by a NVR or VMS software to control PTZ cameras and other devices. Redwall event code can be sent to the assigned port using UDP or TCP protocol. The default port number is "1234".

Code format



Address of the REDSCAN

	Status Code/Clear Code	Status
Y1	MO/CL	Master alarm
Y2	A1-B2 (A11-B22)	Latest alarm
Y3	AA-BB	Multiple alarms
Y4	СС	Multiple alarms
Y5	DQ/dq	Environmental disqualification
Y6	AR/ar	Anti-rotation
Y7	AM/am	Anti-masking
Y8	TR/tr	Trouble
Y9	SO/so	Soiling of the window
Y10	TA/ta	Tamper

9-1 SPECIFICATIONS OF THE MAIN UNIT

Model	RLS-3060L		
Detection method	Infrared Laser Scan		
Laser protection class	Class 1 IEC / EN60825-1 Second edition 2007 Class I FDA 21CFR 1040.10,1040.11 (Laser Notice No.50)		
Wavelength of laser emission	905 nm (infrared laser)		
Coverage for vertical mounting	Radius: 30 m (Approx. 100 ft.), Arc: 180°		
Coverage for horizontal mounting	MAX. 60 m (Approx. 200)ft.		
Detection resolution	0.25°		
Power input	19.2-30V DC / 24V AC \pm 10% (*UL-8)		
Current draw	400 mA(24V DC) 600mA(24VAC) (*UL-8)		
Vertical mounting height	From 4 m (Approx. 13 ft.) to 15 m (Approx. 50 ft.) (recommended)		
Horizontal mounting height	0.7 m (28 in.) (recommended)		
Communication port	Ethernet, RJ-45, 10BASE-T/100BASE-TX		
Protocol	UDP, TCP/IP *Redwall event code		
Walk tester com. port	Special terminal for optional walk tester, AWT-3.		
Area alarm output	N.O. 28V DC, 0.2A × 4 outputs Resistive load only		
Master alarm output	Form C, 28V DC, 0.2A max. Resistive load only		
Trouble output	Form C, 28V DC, 0.2A max. Resistive load only		
Tamper output	N.C. 28V DC, 0.1A max Resistive load only		
Environmental	Form C, 28V DC, 0.2A max.		
circuit	Resistive load only		
Alarm period	Approx. 2 sec. Off delay time r		
Warm-up period	Approx. 30 sec.		
Operating temperature	-20 – +60 °C (-4 – +140 °F)		
IP rating	IP66 (*UL-9)		
Dimensions $(H \times W \times D)$	334 × 144 × 155 mm (132 × 5.7 × 6.1 in.)		
Weight	2.4 kg (85 oz.)		
Accessories	Mounting screw, anchor fixing for wall, mounting holes template and cable gland		

* Specifications and design are subject to change without prior notice.

*UL-8: AC power input shall not be used for UL Listed application.

*UL-9: IP rating is not a feature of UL Listed application.

9-2 DIMENSIONAL DRAWING



Unit:mm (inch)

9-3 OPTIONS

RLS-PB	: Pole mount bracket
RLS-SB	: Adjustable angle mounting bracket
LAC-1	: Laser area checker
RLS-AT	: Redscan Adjusting Tools
	(Laser area checker and Redscan Manager software)

Conversion Table (meter to feet)

m	0	1	2	4	6	8	10	12	14
ft.	0.0	3.3	6.6	13.1	19.7	26.2	32.8	39.4	45.9

m	16	18	20	22	24	26	28	30
ft.	52.5	59.1	65.6	72.2	78.7	85.3	91.9	98.4



EMC Directive 2004/108/EC EN50130-4:1995+A1:1998+A2:2003 EN55022:2006 EN50121-4:2006

D.Q. OUTPUT (ENVIRONMENTAL DISQUALIFICATION

The algorithm specific to REDSCAN allows detection of an intruder during fog. However, during severe conditions such as heavy rain, dense fog or snow storms the Redscan detection capability may be reduced. During such conditions, the Environmental DisQualification (D.Q.) output will be activated. When this output is activated, other solutions are required to secure the area.

UL-10: D.Q. output shall be connected to a compatible UL Listed control unit trouble circuit.



Note: With this connection, when the D.Q. output is activated, the alarm circuit is held closed.

UL-11: This connection shall not be used for UL Listed installation application.

C. Bypass Alarm when DQ is activated + D.Q. Output



Note: With this connection, when the D.Q. output is activated, the alarm circuit is held closed. In case of that the control panel's or Digital Video Recorder's input terminals share the same COM terminal, the alarm output and DQ output can be triggered simultaneously.

NOTES : Options B and C above, should only be used in cases where high numbers of false alarms are being encountered during adverse weather conditions.



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