

SALCO™



MUSEUM
SECURITY
SYSTEMS

CATALOG 2019

INTRODUCTION

This catalog is meant for the museum professional who is designing a new security system or expanding an existing security system. SALCO products are presented here from the point of view of the museum professional.

SALCOs advanced technology provides the means to implement extremely effective and flexible museum security systems. SALCO wired and wireless security systems are ideal for the museum environment and have been operating flawlessly in the field for over thirty years.

Systems are available for any part of the museum, no matter how large the building. Attendants can be notified of a violation in the gallery, or at a central guard post in the building, even roving security personnel can be notified anywhere inside or outside the building up to five miles away. So contact us to discuss your application requirements. Telephone: 941.377.7717, Fax: 941.379.9680, or e-mail: security@salco.com. We will be pleased to work with you.

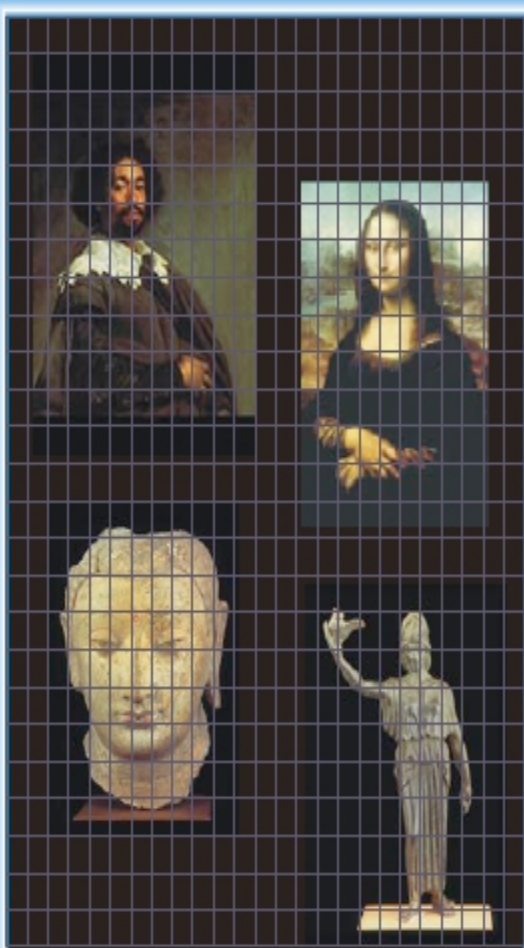
SALCO[™]



System Users Include:

Bellagio Hotel and Casino
The Biltmore Estate
Birmingham Museum of Art
Buffalo Bill Historical Center
Butler Institute of American Art
Carnegie Library of Pittsburgh
Cleveland Museum of Art
Columbia Museum of Art
DeWitt Wallace Arts Gallery
Everhart Museum
Folger Library
The Frick Art Center
Greater Lafayette Museum of Art
Guggenheim Museum
Hadley Exhibits Inc.
Historic New Orleans
Indianapolis Museum of Art
Kansas University Natural History Museum
Katonah Museum of Art
The Kennedy Center
Library of Congress
The Library of Virginia
Los Angeles County Museum of Art
Maier Museum of Art
Mashantucket Pequot Tribal Nation
Michigan Historical Museum
Michigan State University
Minnesota Historical Society
Mirage Hotel and Casino

Mount Vernon Ladies Association
Museum of African American History
Museum of African Art
Museum of Outdoor Arts
National Corvette Museum
NC Museum of Natural Science
New York Historical Association
Newark Museum Association
Northampton County Museum
Onondaga Historical Association
Peninsula Fine Arts Center
The Philbrook Museum of Art
Redwood Library and Athenaeum
Richard Nixon Library and Birthplace
San Antonio Museum of Art
SC Confederate Relic Room Museum
The Speed Art Museum
Spencer Museum of Art
St Paul Public Library
Texas Tech University
University of Connecticut
University of North Carolina
University of Oklahoma
University of Vermont
U.S. Figure Skating Association
U.S. Holocaust Memorial Museum
Virginia Historical Society
Wadsworth Athenaeum
Wellesley College Museum
Williams College Museum of Art



SALCO

TM

MUSEUM
SECURITY
SYSTEMS

NEW

SALCO™

Model 2018 VandalSense IR



Introducing a NEW sensor in the VandalSense series with an unobtrusive ceiling mount design for innovative, precise Non Contact Proximity Sensing. Establishes an invisible security guard zone curtain to protect valuable displays and artifacts.

APPLICATIONS

- ***Install an “Invisible” Security Guard Zone” to secure valuable artifacts.***
- ***Built-in Piezo audible annunciator sounds when a person enters restricted area.***
- ***Adjustable Beam Pattern establishes protective zone to prevent valuable paintings and art work from being approached too closely.***
- ***Stand Alone unit can be mounted in a variety of locations which includes ceiling mount, wall mount, or within display cases with no external wiring***
- ***Help establish Restricted Access Areas with precision detection zone.***

GENERAL DESCRIPTION

The model 2018 VandalSense IR sensor uses Thermal Infrared technology to establish an invisible zone of protection around valuable artifacts and displays. The 2018 features a built in piezo sounder that will alert facility personnel of an unauthorized entry into a restricted area or the detection of a person within too close a proximity of a protected artwork. When a violation of the protected zone is detected, the 2018’s audible annunciator will sound for a programmable time period and then reset itself automatically. Installation is simple, quick and non intrusive since there are no wires to contend with. The 2018 is completely self powered by a user replaceable internal lithium battery which has a lifetime of up to five years or more.

Model 2016 VandalSense IR

FEATURES:

- Requires no external power. Powered by a self-contained, user replaceable lithium battery power source with up to 5 - 10 year life.
- Low battery detection audibly warns user to replace battery.
- Violations of invisible security zone are announced by a built in piezo audible sounder.
- Piezo audible sounder can be adjusted by user for audible warning duration from seconds to minutes.
- Unique Lens collimator design allows flexibility in establishing sensor Field of View and resulting security zone.
- Walk Test LED indicator light facilitates installation by visibly verifying sensing zone.



Available Colors: Bone White
or Black

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Detector Range: 36 ft. (12m.) average @75 deg.F

Power Source: Lithium Battery

Battery Life: Up to 5-10 Years.

Color: Bone Gray or Black

Operating Temperature: 0F-140 F (-17.5C-65C)

Mounting: Wall , Ceiling or Inside Display

Dimensions: Diameter: 4.33" (110 mm.)

Height: 2.50" (63.5 mm.)

Weight= 4.2 ounces (120 gm.)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Ordering Information:

2018 VandalSense IR White: Part 2018-W

2018 VandalSense IR Black: Part-2018 BK

NC Contact Output Port- 2018-W/B (White)

or 2018-BK/B (Black)

SALCO™

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NEW

SALCO™

Model 2016 VandalSense IR



Introducing a NEW and innovative Non Contact Proximity Sensor which establishes an invisible security guard zone to protect valuable displays and artifacts.

APPLICATIONS

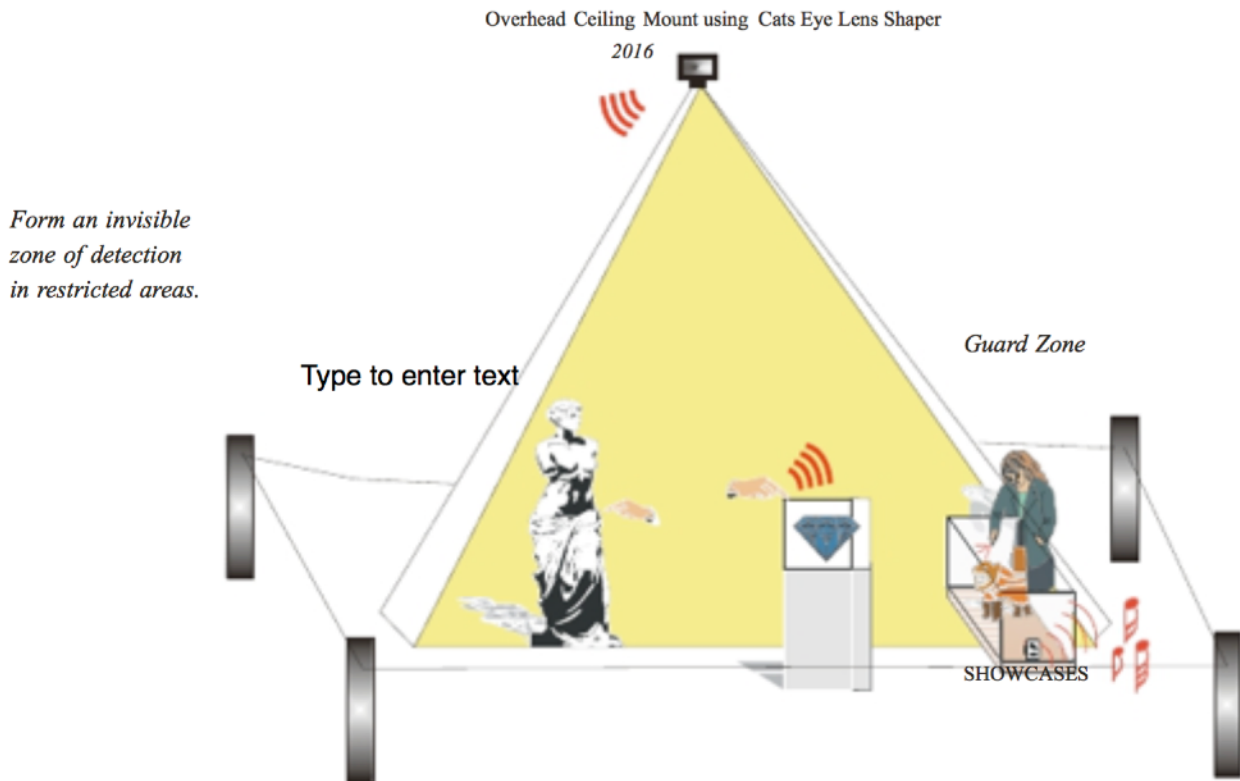
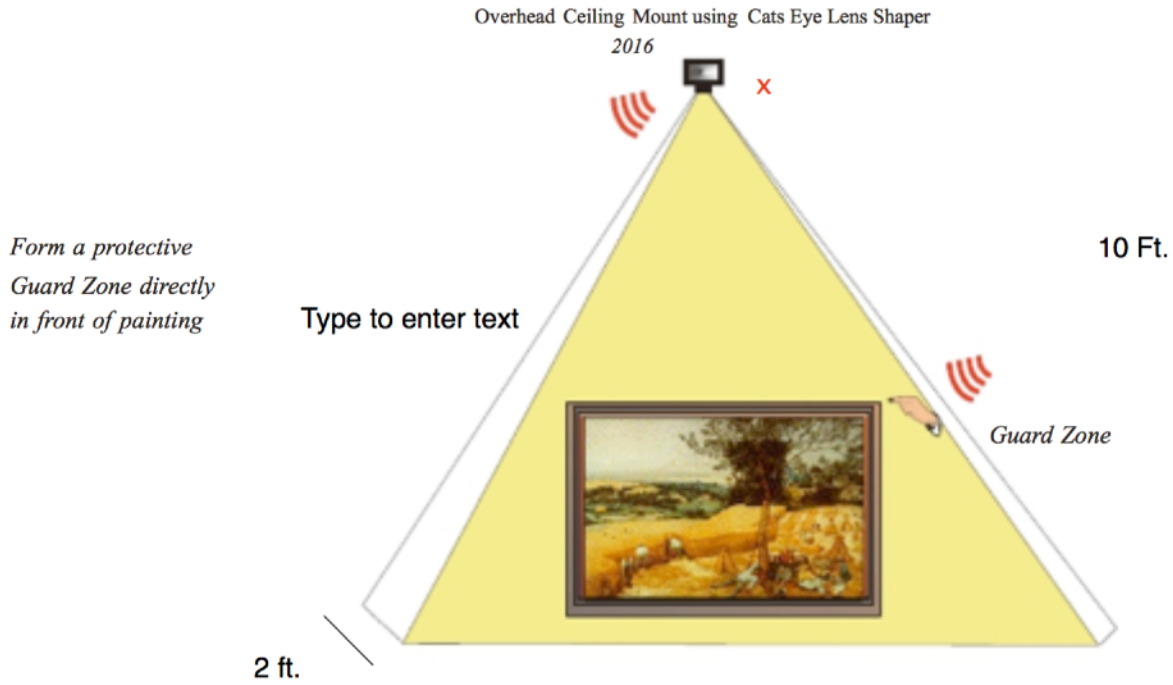
- ***Install an “Invisible” Security Guard Zone” to secure valuable artifacts.***
- ***Built-in Piezo audible annunciator sounds when a person enters restricted area.***
- ***Adjustable Beam Pattern establishes protective zone to prevent valuable paintings and art work from being approached too closely.***
- ***Stand Alone unit can be mounted in a variety of locations which includes walls, ceiling or within display cases with no external wiring required.***
- ***Help establish Restricted Access Areas***

GENERAL DESCRIPTION

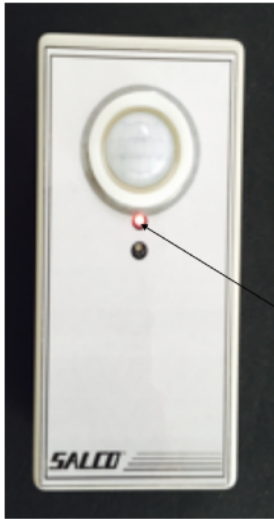
The model 2016 VandalSense IR sensor uses Thermal Infrared technology to establish an invisible zone of protection around valuable artifacts and displays. The 2016 features a built in piezo sounder that will alert facility personnel of an unauthorized entry into a restricted area or the detection of a person within too close a proximity of a protected artwork. When a violation of the protected zone is detected, the 2016’s audible annunciator will sound for a programmable time period and then reset itself automatically. Installation is simple, quick and non intrusive since there are no wires to contend with. The 2016 is completely self powered by a user replaceable internal lithium battery which has a lifetime of up to five years or more.

VandalSense™ IR 2016

Ceiling Mount Applications



SENSOR EXTERNAL CONTROLS



Detection Indicator Light

Approximate Detection zone using open Lens without lens shaper bezel.



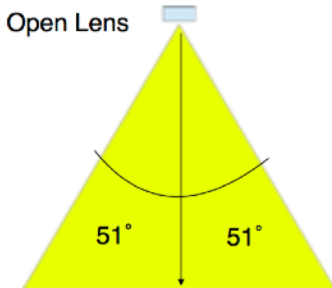
Cat's Eye Lens Shaper

Approximate Detection zone using Cat's Eye Lens Shaper bezel.

SENSOR FIELD OF VIEW:

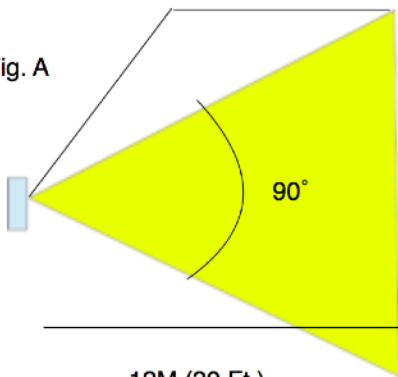
The 2016's detection zone can be configured to a wide range of user preferences by using the available Salco lens shaper inserts. Figure (A) depicts the approximate field of view of the 2016 without using a lens shaper. To create a narrow curtain detection zone the Salco "Cat'sEye" lens shaper is used. The lens shaper is snapped into place and oriented with the slot in a vertical or horizontal position as shown in Figure (B).

Top View Ceiling Mount



12M (39 Ft.)

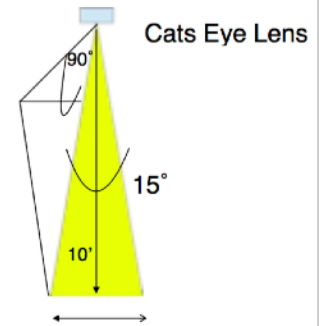
Fig. A



Side View

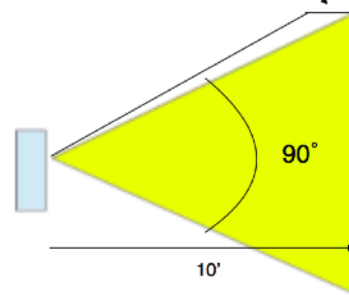
12M (39 Ft.)

Top View Ceiling Mount



Approx. 2' Wide @ 10'

Fig. B



Side View

10'

NEW

SALCO™

Model VTA-2S



APPLICATIONS

- *Use when a VT-1 application requires a loud audible siren and bright strobe combination.*
- *Built in battery powered supply with up to 10 years life allows for quick and easy installation.*
- *Connects directly to VT-1 VandalTouch sensor or any normally closed contact sensor.*
- *Excellent for alarming temporary or mobile display cases due to minimal wiring.*
- *Can be used with multiple sensors*

Introducing the NEW and innovative Self Contained , Internally powered Siren/Strobe System

GENERAL DESCRIPTION

The Model VTA-2S is an ideal solution for applications requiring a high intensity audible, attention grabbing siren and strobe combination. When used in conjunction with the VandalTouch model VT-1, or any other sensor that provides a dry contact output, the VTA-2S can generate an attention getting alarm response.

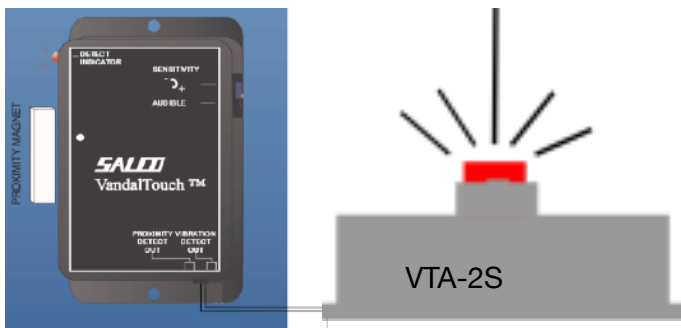
The VTA-2S is uniquely powered by its own internal lithium power cell that can provide up to an incredible 10 years of operation. When the internal battery requires replacement, the unit features a low battery warning in advance to indicate a low battery condition to the end user. The VTA-2S also features a convenient user adjustable timer from 5-90 seconds for automatic siren/strobe cutoff after activations.

Model VTA-2S

FEATURES:

- High Intensity Audible siren with flashing strobe.
- User Adjustable siren/strobe cutoff time from 5-90 seconds or continuous follower mode.
- Requires no external power. Powered by a self-contained, user replaceable lithium battery power
- Efficient system design allows for long life battery operation with extremely high audio intensity output.
- Separate Alarm output port can be used to relay alarm event conditions to external security systems or wireless transmitter.
- Low battery detection audibly warns user to replace battery.

VT-1 interfaced to VTA-2S Application for complete stand



SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Siren Audible Intensity: 104 db @ .5 ft.

Strobe Light Intensity: > 10,000 mcd.

Power Source: 9V Lithium Battery or Duracell
User replaceable.

Battery Life: Up to 10 Years with lithium power source.

* Depending on number of activations.

Audible Low battery replace warning

Color: Bone Gray

Operating Temperature: 14F-149 F (-10C-65C)

Mounting: Wall , Ceiling or Inside Display

Housing : IP56 rating, Gasketed Enclosure

Dimensions: Length : 7.63" (193.80 mm.)

Width : 3.63" (92.20 mm.)

Height : 4.5" (114.30 mm.)

Weight : 13.40 ounces (380 gm.)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SALCO™

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NEW

SALCO™

Model VTA-1-KLCO Alarm Control Unit

The model VTA-1-KLCO features a built in piezo sounder that will alert facility personnel of an unauthorized entry into a restricted area or the detection of a person within too close a proximity of a protected artwork. When a violation of the protected zone is detected, the VTA-1-KLCO audible annunciator will sound for a programmable time period and then reset itself automatically. Installation is simple, quick and non intrusive since there are no wires to contend with. The VTA-1-KLCO is completely self powered by a user replaceable internal lithium battery which has a lifetime of up to five years or more. The

FEATURES:

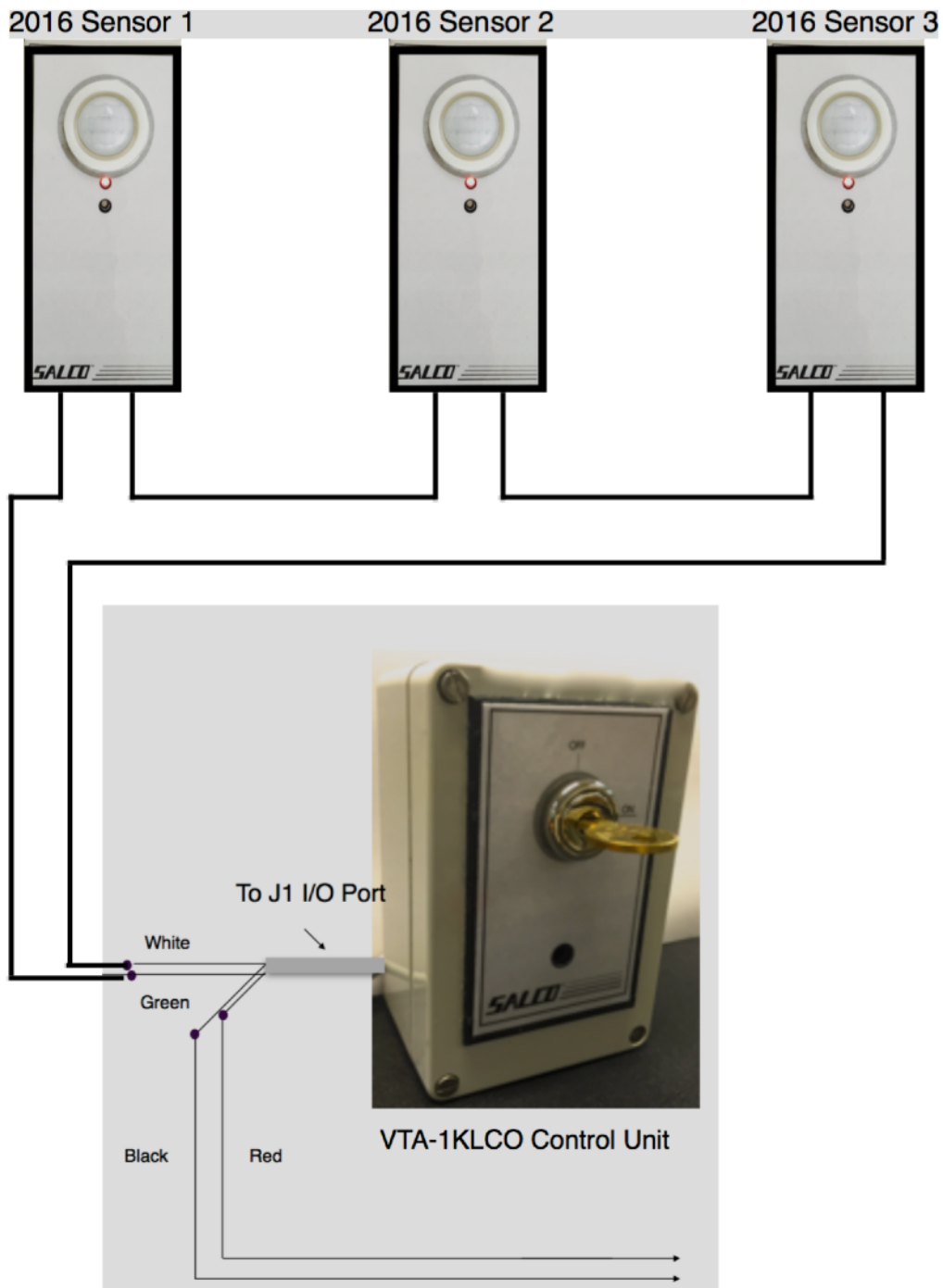
- Requires no external power. Powered by a self-contained, user replaceable lithium battery power source with up to 5 - 10 year life.
- Secure Key lock control of audible allows for bypass to enable authorized personnel entry to protected area without activating sounder.
- Alarm outputs enable unit to be monitored and integrated into premises alarm system
- Piezo audible sounder can be adjusted by user for audible warning duration from 1-90 seconds.
- May be used with Multiple normally closed type sensors connected in a series fashion.



OPERATION:

The Model VTA-1-KLCO activates its on board alarm sounder for a pre-programmed time period whenever a violation occurs on its protective sensor input, i.e. an opening on its normally closed alarm input zone. The audible sounder will sound for a pre programmed time period which is user adjustable. The normally closed auxiliary output will also activate at this time to signal an alarm condition to premises on site alarm system. The on board alarm sounder may be disabled by authorized personnel using the secure key lock so that can enter the secured protective area may be entered without generating nuisance alarms. The VTA-1-KLCO auxiliary output will continue to function even when key lock is in the off state so that on site alarm system continues to reflect protective sensor status..

Wiring Diagram for network of 2016 VandalSense IR sensors to VTA-1-KLCO Control Unit



Optional Connection to existing on site Security or Access Control system. Normally closed, opens on alarm.

SALCO™

ACTUAL SIZE



VT-1

VandalTouch™ Sensor

APPLICATIONS

- Help prevent valuable paintings from being touched or vandalized.
- Protect museum display vitrine cases.
- Help prevent valuable artifacts from being physically removed or damaged.
- Sound a low intensity audible whenever a painting is touched.

GENERAL DESCRIPTION

The SALCO VandalTouch™ sensor is an ultra-slim vibration and movement sensor that was specifically designed to help secure valuable paintings and artifacts from vandalism or unauthorized removal.

The VandalTouch™ incorporates an adjustable vibration detector and movement sensor which can be placed directly behind a painting or valuable artifact to help secure it from touch or movement. Upon detecting a violation a low intensity audible sound is generated to warn the vandal and attending personnel of possible tampering. In addition, when connected to a wireless transmitter, the sensor sends a signal to an appropriate SALCO receiver processor system to remotely warn of a violation. The VandalTouch™ can also be hard-wired to existing security systems.

VandalTouch™ Sensor Model VT-1

FEATURES:

- Very small and ultra slim physical size for easy placement directly behind flat wall mounted paintings.
- Incorporates a highly sensitive vibration detector that can respond to just a finger touch.
- Self-contained audible piezo alarm generates a local audible warning that a protected object has been violated.
- Can connect to a supervised-wireless transmitter which sends a signal to an appropriate SALCO receiver processor system to remotely announce a violation.
- The Vandal Touch™ is compatible with the entire line of SALCO short-range and long-range supervised-wireless transmitters.
- Can connect to existing hard-wired protective loops.
- Incorporates low current drain design with long life lithium batteries to achieve operational life of up to 10 years.

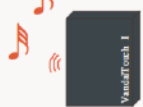
WIRED APPLICATION



WIRELESS APPLICATION



STAND-ALONE APPLICATION



SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power Supply

Long life lithium batteries with up to 10 year life

Vibration Sensor

Solid state switched output: Normally closed circuit

Max switching current: 20 ma at 14 Volts DC

Solid state piezoelectric with adjustable sensitivity

Proximity Sensor

Magnetic reed type

Max switching current: 100 ma at 14 Volts DC

Visual Annunciator

Solid state red LED lamp

Audible Annunciator

Piezo audible sounds approximately 20 sec. on a violation

PHYSICAL SPECIFICATIONS

Dimensions: 2.0" x 3" x 0.50"
(50.8mm x 76.2mm x 12.7mm)

Material: ABS plastic with UL flame rating of 94-VO

Color: Black

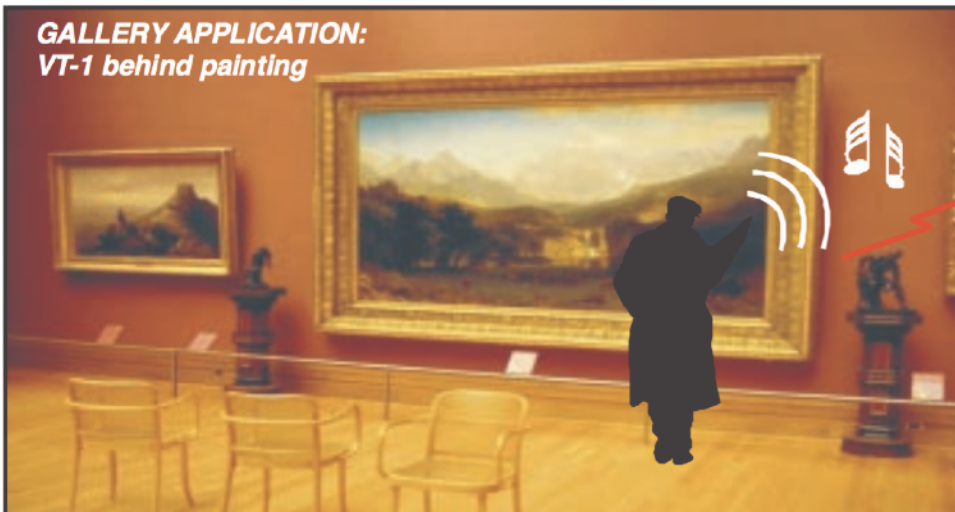
Weight: 1.8 ounces (51.14 grams)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: - 10° to 150° F (-20° to 65° C)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

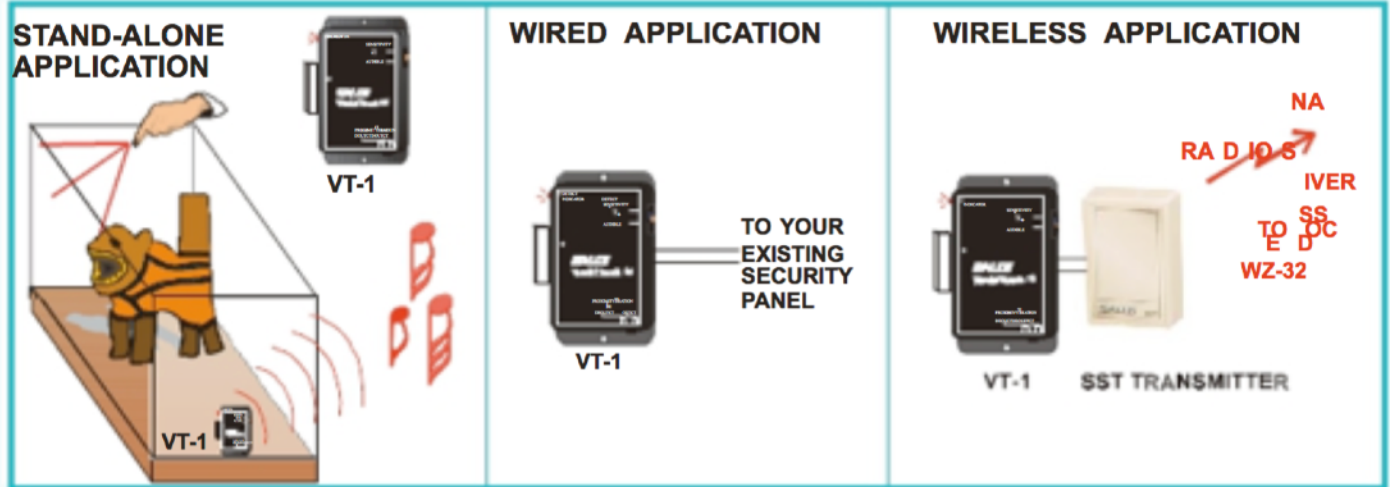
GALLERY APPLICATION: VT-1 behind painting



SECURITY ROOM



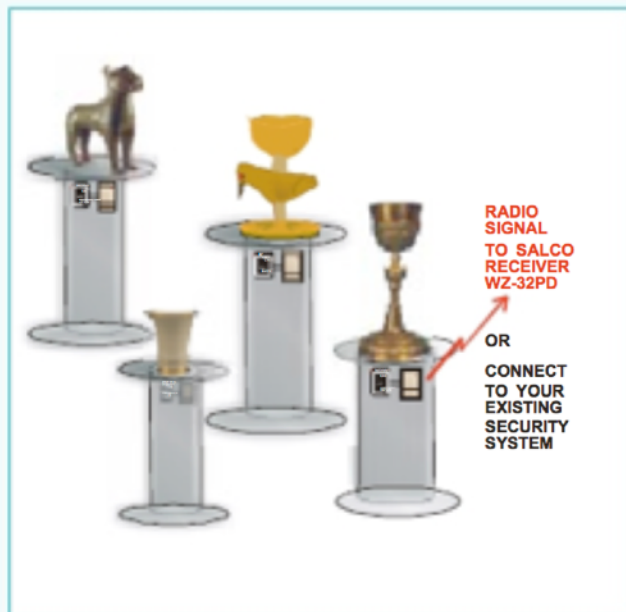
VT-1 Showcase Applications



Showcases can be secured from vandalism and theft with the VT-1, which is installed in seconds on the floor of the showcase. The VT-1 detects pounding on the glass, which is preferable to detecting glass breakage as testing glass breakage devices under real conditions requires actual breakage of the glass. A sensitivity adjustment on the VT-1 enables security staff to choose the sensitivity level of detection, the intended target being someone trying to break the glass ignoring the visitor who accidentally bumps the showcase. Doors in showcases can be made secure by installing proximity magnetic sensors, one part on the case and the other on the moveable door.

VT-1 Pedestal Applications

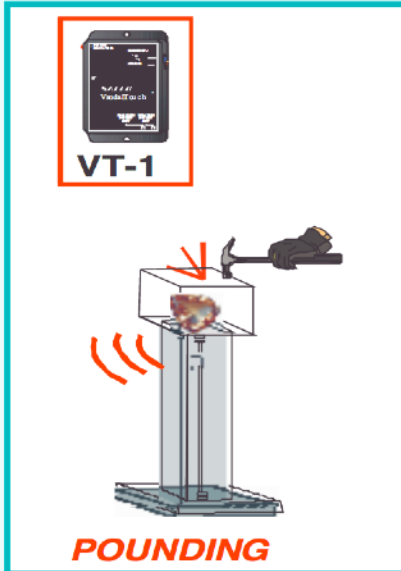
Security for objects displayed on pedestals is dictated by their physical shape, size, and value.



RADIO SIGNAL TO SALCO RECEIVER WZ-32PD
OR
CONNECT TO YOUR EXISTING SECURITY SYSTEM

Statues can be secured easily with the VT-1. The magnet part of the sensor is mounted at the base of the statue and the magnetic switch under the pedestal's top inside the column, if hollow, all hidden from view. The VT-1 can also be mounted under the top platform of the pedestal. An object on a pedestal can be given some security by placing a thin adhesive between it and the pedestal top. Attempting to remove the object will cause vibration, activating the VT-1.

Vases can be protected in the same manner as statues. Or the magnetic switch and a radio transmitter, or a lithium battery powered audible alarm can be placed inside the vase, all hidden from view.

VandalTouch™, Proximity Magnetic, Leaf Switch Sensors**Vitrines Application**

Sensors securing vitrines must be able to detect pounding, removal of the top, complete removal of the vitrine, or just approaching the vitrine.

Removal of the top can be detected by mounting the VandalTouch™ sensor under the bottom platform of the vitrine and a miniature proximity magnetic sensor at the bottom of each top. The VandalTouch™ sensor is mounted under the vitrine's display floor within the column of the vitrine. Here the VT-1 VandalTouch™ sensor can be connected to a radio transmitter which is mounted to the inside wall of the vitrine, or connected to your existing hard-wired system. All are completely hidden from view. Any slight movement the vitrine experiences, the VT-1 sensor activates the radio transmitter activating an alarm at the Salco receiver security processor.

Tabletop Applications

Two types of sensor system are available to detect and announce an object's removal from a tabletop.

The VandalTouch™ VT-1 detects vibration, sounding a local alarm and/or announcing an object's removal to a WZ-32PD Processor. This system protects all the objects on the table simultaneously. The VT-1's sensitivity to different objects can be varied by attaching fish line or a drop of wax (if permissible) to an object on the table, causing more vibration relative to objects with no wax or fish line. To increase the difference between "foot stomping" and the "removal of an object" types of vibration a shock absorbing pad can be placed under each table leg.

The second method for securing table top exhibits is to protect only the most valuable objects using either proximity magnetic or leaf switch type sensors depending on the type of object. Multiple sensors of either type can be connected to employ only one local alarm or radio transmitter per table top, keeping the cost down and announcing precisely which table top has been violated. This second method for securing table top exhibits is more economical than the VandalTouch™ system but requires more installation time and maintenance. The VandalTouch™ on the other hand, is installed in seconds, protecting all objects on the tabletop simultaneously.

SALCO™

VTA-1 Audio Amplifier

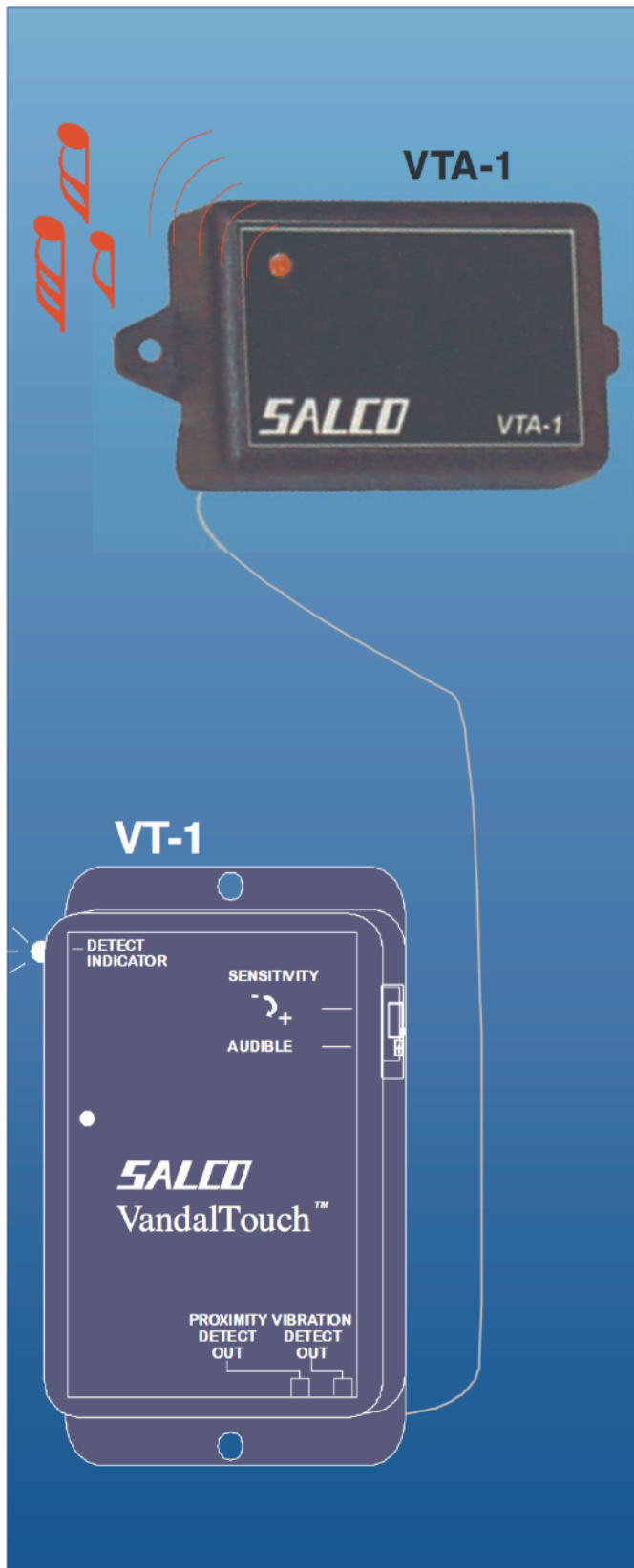
for VandalTouch™ Model VT-1

APPLICATIONS

- Use when your application requires a louder audible tone than the VT-1.
- Up to 10 years of battery life.
- Seconds to install.
- Connects directly to the VT-1.
- Use with multiple sensors.

GENERAL DESCRIPTION

The audio amplifier Model VTA-1 is used when louder audible tones are required for your application. Used in conjunction with the VandalTouch™ model VT-1, the VTA-1 is powered by its own lithium batteries. Completely automatic, an adjustable audible will sound from 1 second to 90 seconds after each activation from the VandalTouch™ sensor. Physical dimensions of the VTA-1 are 0.785" x 1.51" x 2.26". (2cm x 3.8cm x 5.7cm).



VTA-1

AUDIO AMPLIFIER

FEATURES:

- Loud audible sound.
- Adjustable sound duration from 1 to 90 seconds.
- Low current drain with up to 10 years battery life.
- Small physical size.

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Power Supply: Long-life lithium batteries up to 10 years life.

Audible Annunciator: Piezo audible adjustable from 1 to 90 seconds duration.

PHYSICAL SPECIFICATIONS

Dimensions: 0.785" x 1.51" x 2.26" (2cm x 3.8cm x 5.7cm)

Material: ABS plastic with UL flame rating of 94-VO

Color: Black

Weight : 1.8 ounces (51.14 grams)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -10 to 150° F (-20 to 65° C)

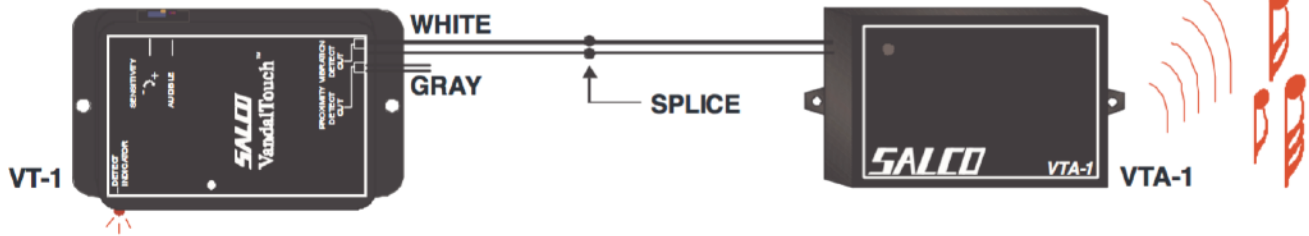
Note: Specifications subject to change without notice.

ADJUSTABLE SOUND DURATION
1 - 90 SECONDS

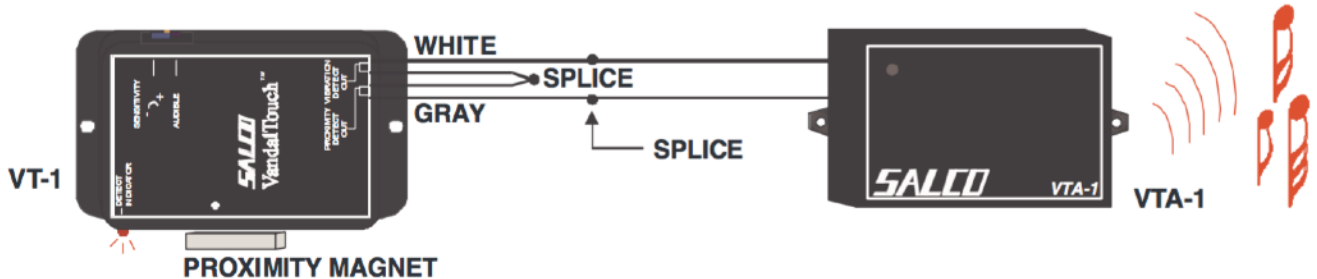
FULLY COUNTER CLOCKWISE FOR 1
SECOND. CLOCKWISE TURNS INCREASE
SOUND DURATION UP TO A MAXIMUM
OF 90 SECONDS.



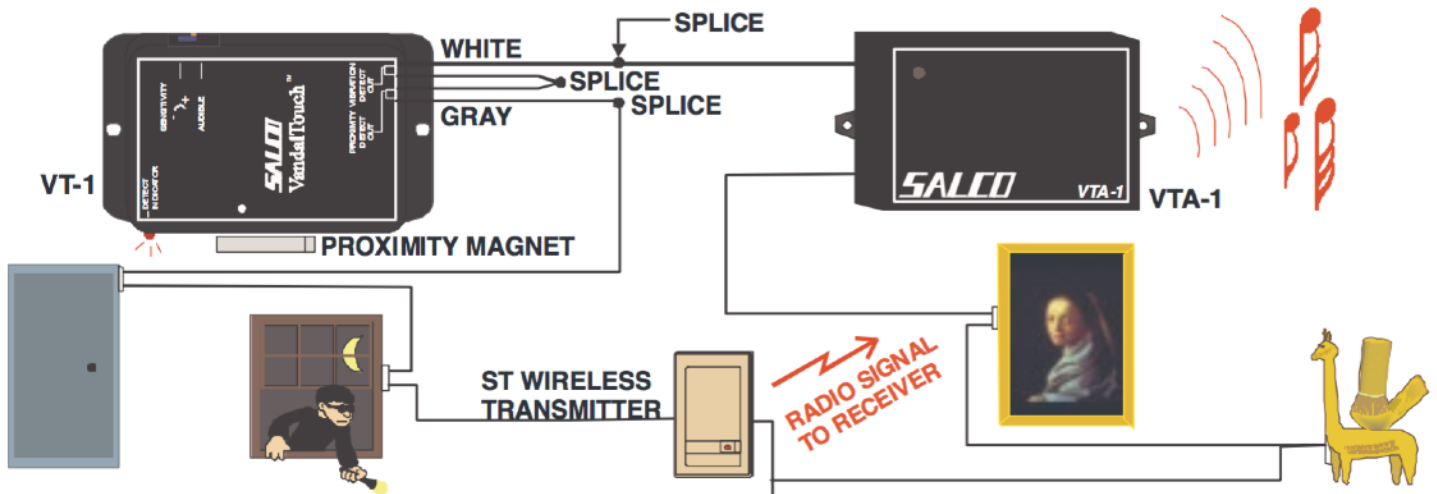
VTA-1 AND VT-1 APPLICATION FOR VIBRATION DETECTION



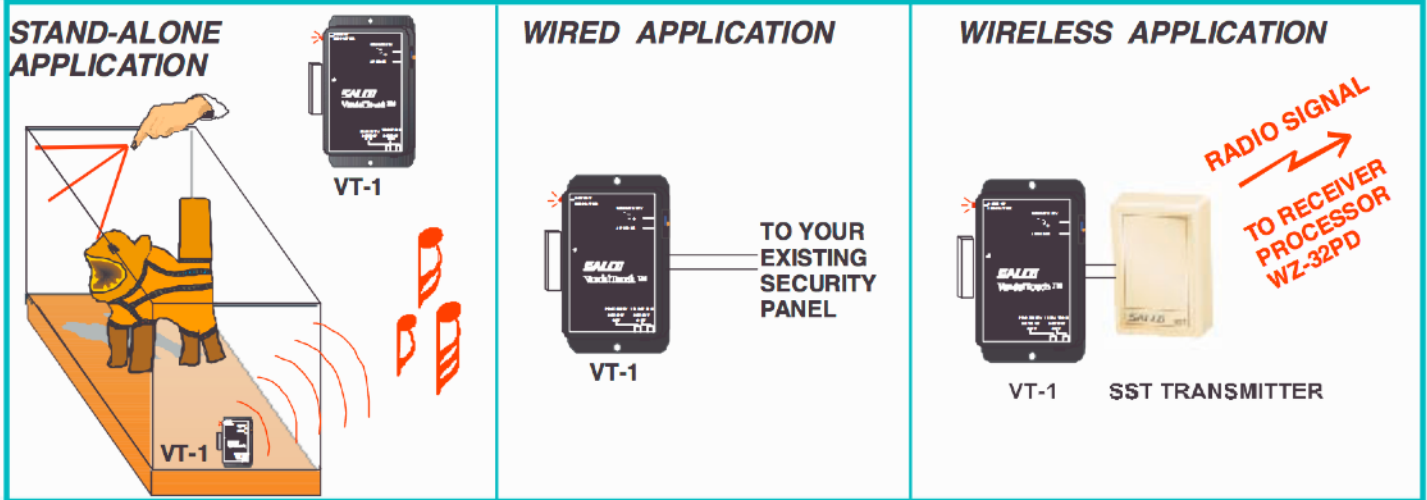
VTA-1 AND VT-1 APPLICATION FOR VIBRATION AND PROXIMITY DETECTION



VTA-1 AND VT-1 MULTI-EVENT APPLICATION FOR VIBRATION AND PROXIMITY DETECTION



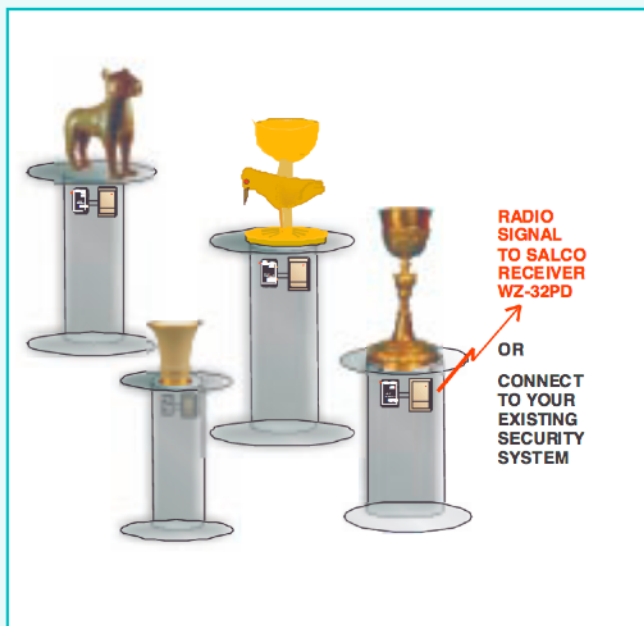
VT-1 Showcase Applications



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VT-1 Pedestal Applications

Security for objects displayed on pedestals is dictated by their physical shape, size, and value.

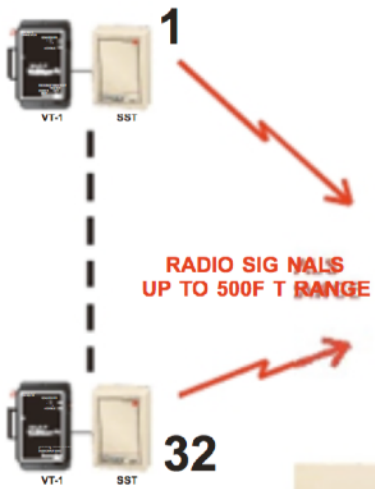


Statues can be secured easily with the VT-1. The magnet part of the sensor is mounted at the base of the statue and the magnetic switch under the pedestal's top inside the column, if hollow, all hidden from view. The VT-1 can also be mounted under the top platform of the pedestal. An object on a pedestal can be given some security by placing a thin adhesive between it and the pedestal top. Attempting to remove the object will cause vibration, activating the VT-1.

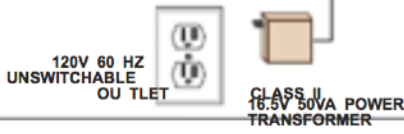
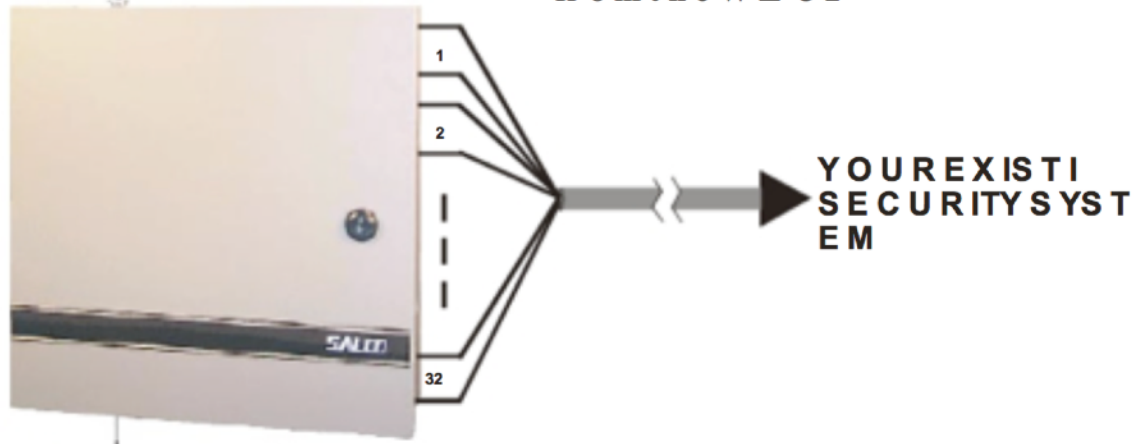
Vases can be protected in the same manner as statues. Or the magnetic switch and a radio transmitter, or a lithium battery powered audible alarm can be placed inside the vase, all hidden from view.

SUPERVISED-WIRELESS SYSTEM FOR 32 SENSOR POINTS

The system comprises 32 VT-1 VandalTouch™ sensors connected to SST supervisory send a radio signal to the WZ-32 PD receiver processor up to 500 feet away. Almost any type



The WZ-32 PD Receiver Processor has an individual output relay contact per wireless rooms located several thousand feet from the WZ-32



WZ-32

Proximity Magnetic Sensor MC-1

The MC-1 is in two parts easily added to security systems to help secure paintings. One part is a magnet and the other an output contact, which when activated by a movement separating the two parts signals a wireless transmitter.

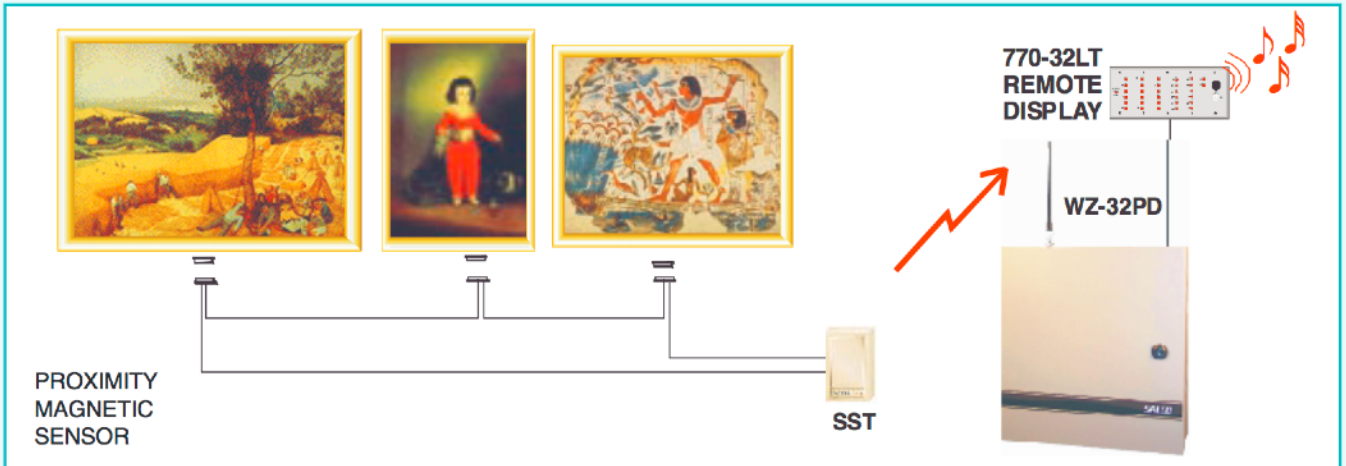
For example, when used with a painting, one part of the sensor is installed on the painting's rear frame near the wall, and the other part on the wall. Both components are hidden from view behind the painting. Physical dimensions of each part are 1.75" x 5/15" x 7/16" (44mm x 7.9mm x 11.1mm).

- Applications:**
- Paintings
- Vitrines
- Showcases
- Pedestals
- Tabletops
- Statues

Paintings Applications



Proximity Magnetic Sensor Installed Behind A Painting



Multiple Proximity Magnetic Sensors Installed Behind Paintings

SALCOTM
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