Simplex

UL, ULC, CSFM Listed FM Approved**

Datasheet

TrueAlert LED Addressable Notification Appliances

Weatherproof Notification Appliances, Wall Mount, Visible Only, Audible/Visible, Model Series 59WP

Features

Individually addressable multi-candela TrueAlert ES weatherproof notification appliances

- Multi candela LED strobe available in low (15, 30, and 75 cd) and high (110, 135, and 185 cd) range candela models
- Available in Visible Only (V/O) and Audible/Visible (A/V) models
- Small compact design and low current draw due to energy efficient strobe LEDs
- Programmable strobe intensity from the control panel or the device
- Advanced addressable notification controlled by IDNAC signaling line circuits (SLCs) provides regulated 29 VDC . This enables strobes to operate with lower current even under battery backup
- Wiring supervision to each appliance enables T-tapped connections for Class B circuits to simplify wiring. Class A circuits require in/out wiring.
- Self-Test mode enables onboard sensors to detect the strobe or horn output and then report their status to the control panel
- TrueAlert device reports at the control panel detail appliance point ID, custom label, type, and candela setting. See example TrueAlert device reports reference.
- Magnet Test diagnostics assist checkout and testing of appliances and wiring
- Synchronized LED strobe and piezo operation on the same IDNAC channel

Agency listings reference

- Meets environmental requirements for UL1638 and light distribution requirements for UL1971
- UL 1638 listed for outside applications
- UL 1971 listed for indoor applications. Indoor applications are compatible with ADA requirements. Refer to important mounting information Installation and mounting height reference.
- Horn operation is listed to UL Standard 464
- Strobe operation listed to UL Standard 1971 and ULC Standard S526

LED Indicator and Magnet Test

- Indicator LED indicates magnet test acknowledgment, 3 digit IDNAC address, and candela rating
- You can configure the Indicator LED to blink on every polling cycle to indicate appliance supervision
- When the controller is in diagnostic mode, the magnet test pulses the LED to indicate appliance address and can also briefly flash the strobe

A/V models with horn

- Horns controlled separately from visible appliances on the same two-wire circuit
- Selectable march time rates of 20, 60, or 120 BPM
- Output is high or low (~5 dBA difference) selectable at the appliance or from the controller

Mechanical design features

- Robust, high impact, flame retardant thermoplastic housing
- Various cover options and lettering combinations are available – red with white letters or white with red letters
- Surface mounts to a single gang weatherproof electrical box
- You can easily remove covers without disturbing the connected housing and avoiding trouble conditions
- In/out wiring terminals for 18 to 12 AWG

Figure 1: TrueAlert ES 59WP series addressable LED strobes



Description

TrueAlert ES 59 Series

TrueAlert ES 59 Series weatherproof addressable appliances provide visible only and audible/visible notification for inside and outside, extended temperature, and extended humidity applications. They are individually addressed and receive power, supervision, and control signals from a Simplex fire alarm control panel IDNAC SLC.

Strobe application reference

Correct selection of visible notification depends on occupancy, location, local codes, and correct applications of: the National Fire Alarm Code (NFPA 72), ANSI A117.1. The appropriate model building code: BOCA, ICBO, or SBCCI, and the application guidelines of the Americans with Disabilities Act (ADA).

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TrueAlert ES diagnostics

Magnet Test

With the Magnet Test, you can test individual appliances when IDNAC SLCs are in diagnostic mode.

Self-Test

Self- test enables selected devices to detect their own strobe or horn output and then report their status to the control panel. Operation is by selected VNAC appliance groups and is automatic or individually activated by applying a magnet.

Silent Appliance Magnet Test

Silent Appliance Magnet Test pulses the appliance indicator LED sequentially in response to an applied magnet to conveniently indicate the appliance's address.

Operational Appliance Magnet Test

Operational Appliance Magnet Test indicates device location by pulsing the indicator LED briefly and then flashes the strobe LEDs and sounds the horn to indicate proper operation.

TrueStart Instrument Two (TSIT)

You can use TSIT to test IDNAC SLC wiring and TrueAlert ES appliance IDC, NAC, and IDNet communications before connection to the control panel. Contact your local Autocall representative for additional information.

TrueAlert addressable wiring isolator

Isolator Model 4905-9929 is available for remote mounting on TrueAlert addressable circuits to isolate short circuited wiring from functioning wiring.

Product selection

TrueAlert ES 59 series weatherproof appliances require surface mount box and gasket. The cover dimensions are 5 ¼ in. H x 3 ½ in. W x 1 ⅝ in. D (132 mm x 86 mm x 39 mm)

Table 1: Appliance only

SKU	Color	Candela rating	Type
59AV-APPLWR-O	Red	Low	Audible/Visual
59AV-APPLWW-O	White		
59AV-APPLWRH-O	Red	High (110, 135, and 185 cd)	
59AV-APPLWWH-O	White		
59VO-APPLWR-O	Red	Low	Visual Only
59VO-APPLWW-O	White		
59VO-APPLWRH-O	Red	High	
59VO-APPLWWH-O	White		

Table 2: Separate weatherproof covers (Required when ordering appliance only models)

SKU	Color	Wording	Type
59AVC-WRFO	Red	FIRE	Audible/Visual
59AVC-WWFO	White		
59AVC-WWAO	White	ALERT	
59AVC-WRSO	Red	Logos only	
59VOC-WRFO	Red	FIRE	Visual Only
59VOC-WWFO	White		
59VOC-WRAO	Red	ALERT	
59VOC-WWAO	White		

Table 3: Surface mount weatherproof boxes (Required, ordered separately)

SKU	Color	Description		Dimensions
59WPBB-WR	Red	Surface mount weatherproof single-gang mounting box, includes weatherproof gasket and painted versions of SKU 72219K23. Order from your Simplex product representative.		4 ½ in. H x 2 ¾ in. W x 2 in. D (114 mm x 70 mm x 51 mm)
59WPBB-WW	White			
7219K23	Gray	Surface mount weatherproof single-gang mounting box. Order blank cover 7219K5 to get matching weatherproof gasket	Manufactured by McMasterCarr. Order from electrical product supplier.	
7219K5	Gray	Blank cover with weatherproof gasket		N/A, cover is not used

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IDNAC SLC controller compatibility reference

Table 4: Compatibility reference

Compatible controllers	Datasheet reference	Controller output	IDNAC SLC output voltage	Appliance voltage design reference
4100ES with EPS+ or EPS Power Supply	*S4100-0100*	IDNAC SLC	29 VDC (regulated)	23 VDC (with 6 VDC drop)
4009 IDNAC Repeater	*S4009-0004*			
4007ES with IDNAC Notification	*S4007-0002*			
4010ES with ESS Enhanced System Supply	*S4010-0011*			

Specifications

Table 5: Electrical ratings

Specification	Details
Typical operating voltage range	23 VDC to 31 VDC, special application
Supervisory requirements	1 unit load equals 0.8 mA of control panel current
IDNAC SLC loading	Maximum of 127 addresses for each SLC, 139 unit loads
Temperature range	-40°F to 150°F (-40°C to 66°C)
Humidity range	10% to 93%, non-condensing at 104° F (40° C)
IDNAC SLC wiring specifications	Un-shielded twisted pair (UTP), recommended
Refer to control panel installation instructions for more information.	Maximum wire length with T-Taps for Class B wiring for each SLC = 10,000 ft (3048 m)
	Maximum wire length to any appliance = 4000 ft (1219 m)
Connections	Terminal blocks for 18 AWG to 12 AWG (0.82 mm^2 to 3.31 mm^2). Two wires for each terminal for in/out wiring
Installation instructions	579-1182

Table 6: A/V Horn output ratings at 10 ft (3 m) at 23 VDC

Sound type (see note)	Steady/High	Steady/Low	Coded/High	Coded/Low
Reverberant chamber, UL 464 test	85.2 dB	80.4 dB	81.5 dB	77.3 dB
Anechoic chamber, ULC 525 test	91.5 dB	86.2 dB	91.2 dB	85.9 dB

Note: UL 464 test coded values are typical of the output measured with a temporal or a march time pattern and with a sound level meter reading on a fast setting. Under the same test conditions, coded horn output peak sound level readings are typically 4 dBA higher. Anechoic horn output ratings are typically more representative of installed sound output.

Table 7: 23 VDC RMS current ratings (UL1971/ULCS526) for each candela

Type	Temperature	15 cd	30 cd	75 cd	110 cd, 135 cd, and 185 cd
V/O	-40° to below 32° F	36 mA	50 mA	70 mA	143 mA
A/V	(-40° to below 0° C)	58 mA	71 mA	91 mA	167 mA
V/O	32° F to 150° F	31 mA	44 mA	60 mA	125 mA
A/V	(0° C to 66° C)	51 mA	63 mA	81 mA	143 mA

Table 8: Percentage of rated light output at room temperature

Output type	On-axis angle	Vertical, below axis angle		Horizontal, left or right of axis angle	
	0°	45°	90°	45°	90°
UL required output	100%	34%	12%	75%	25%
Typical output	145%	84%	21%	102%	47%

Table 9: A/V sound dispersion as in ULC-S525

Test type	Level decrease	Vertical angle	Horizontal angle
Anechoic testing performed at 3 m (10 ft). Referenced to on-axis = 0°	-3 dB	+20° (above axis)	+50° (to right)
		-48° (below axis)	-50° (to left)
	-6 dB	+65° (above axis)	+63° (to right)
		-60° (below axis)	-63° (to left)

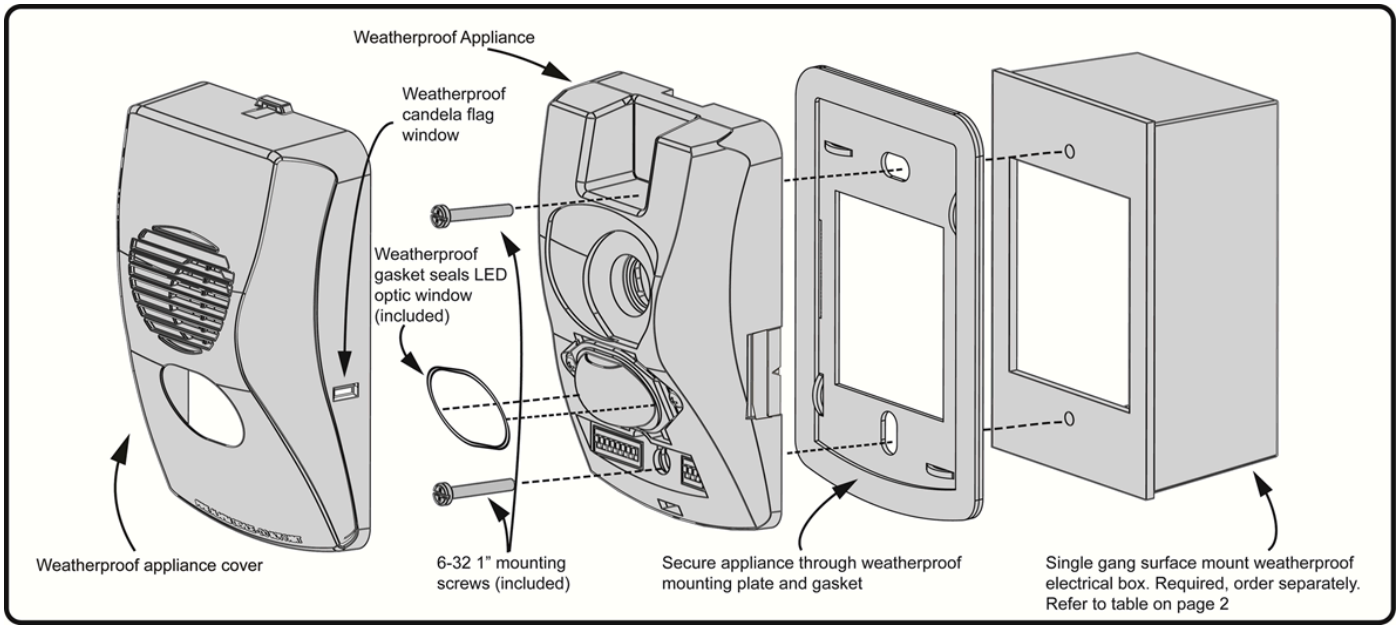
TrueAlert device reports reference

Service Port			Page 1	
REPORT 5 : TrueAlert Device Report		12:34:56 am Fri 8-May-15		
POINT ID	CUSTOM LABEL	DEVICE TYPE	CANDELA	
T14-1-1	Location Label . . . up to 40 characters	AV-LH	15	
T14-1-2	Break Room 5	AV-L	110	
T14-1-3	Boiler Room	VO-LH	75	
T14-1-4	Elec. Room 7	VO-LH	135	

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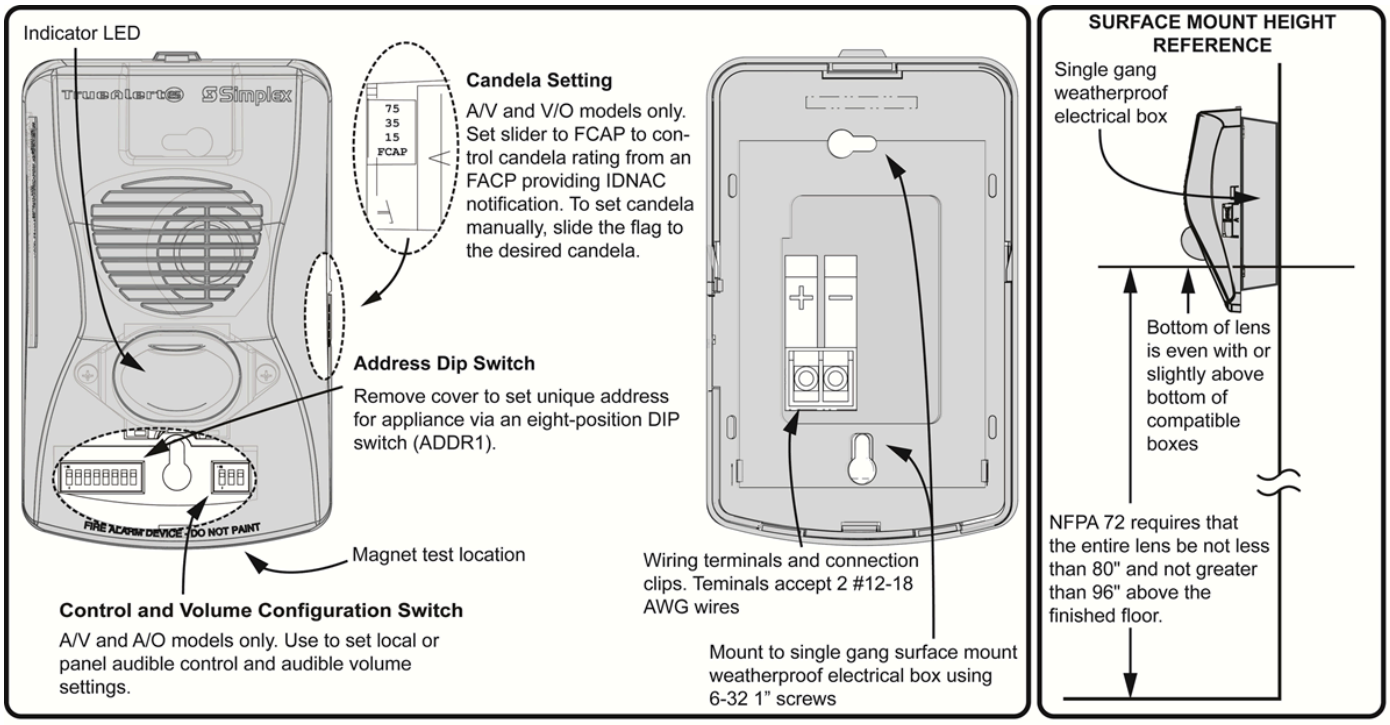
Weatherproof appliance installation reference

Figure 2: Appliance assembly



Installation and mounting height reference

Figure 3: Appliance



All specifications and other information shown were current as of document revision and are subject to change without notice. Additional listings may be applicable, contact your local Simplex® product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. Simplex, and the product names listed in this material are marks or registered marks. Unauthorized use is strictly prohibited. NFPA 72 and National Fire Alarm Code are registered trademarks of the National Fire Protection Association (NFPA).

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