5 Simplex

TrueAlert ⊕ LED Addressable Notification Appliances

UL, ULC, CSFM Listed* FM Approved*



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
- Strobe intensity can be programmed from the control panel or the device
- Advanced addressable notification controlled by IDNAC Signaling Line Circuits (SLCs) provides regulated 29 VDC which allows strobes to operate with lower current even under battery backup
- Wiring supervision to each appliance allows "T-tapped" connections for Class B circuits to simplify wiring (Class A circuits require in/out wiring)
- Self-Test Mode allows on-board sensors to detect the strobe and/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 sample on page 3)
- 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 outdoor applications
- UL 1971 listed for indoor applications; indoor applications are compatible with ADA requirements (refer to important mounting information on page 3)
- 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
- Indicator LED can be configured 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



TrueAlert ES 59WP Series LED Addressable Strobes are Available in Red with White Lettering and White with Red Lettering

Mechanical design features

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

Description

TrueAlert ES 59 Series weatherproof addressable appliances provide visible only and audible/visible notification for indoor and outdoor, 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. LED and xenon tube strobes require operation on separate IDNAC channels.

Strobe Application Reference

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper 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).

* These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7125-0026:0383 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

TrueAlert ES Diagnostics

Magnet Test allows individual appliances to be tested when IDNAC SLCs are in diagnostic mode.

Self-Test allows selected devices to detect their own strobe and/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 pulses the appliance indicator LED sequentially in response to an applied magnet to conveniently indicate the appliance's address.

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.

TrueAlert ES Diagnostics (Continued)

TrueStart Instrument Two (TSIT) can be used to test IDNAC SLC wiring and TrueAlert ES appliance IDC, NAC, and IDNet communications before connection to the control panel. Please contact your local Simplex 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. See data sheet 4905-0001 for more information.

Product Selection

Audible/Visible

TrueAlert ES 59 Series Weatherproof Appliances

(Requires surface mount box and gasket. Dimensions with cover = 5 1/4" H x 3 1/2" W x 1 1/8" D / 132 mm x 86 mm x 39 mm)

Audible/Visible											
Model*		Color	Wording	Candela rating	Mod		Color	Wo	rding	Candela rating	
59AV-WRFO (-BA	A)	Red	FIRE	Low (15, 30 and 75 cd)	59AV-WWF	FO-BA	White	F	IRE	Low	
Visible Only											
Model*		Color	Wording	Candela rating	Mod	del*	Color	Wo	rding	Candela rating	
59VO-WRFO(-BA	()	Red	FIRE	Low	59VO-WWI	FO-BA	White	F	IRE	Low	
Appliance Only	•	'			-					•	
Model		Color	Cand	ela rating	Мо		Color		Candel	a rating	
59AV-APPLWR-C)	Red		Low	59VO-APP	LWR-O	Red		L	OW	
59AV-APPLWW-0) C	White	te Low		59VO-APP	LWW-O	White		L	Jw	
59AV-APPLWRH	-0	Red	Liab (110	135 and 185 cd)	59VO-APP	LWRH-O	Red	Red		Lliah	
59AV-APPLWWH	I-O '	White	High (110,	135 and 165 cd)	59VO-APP	LWWH-O	White		High		
Separate weathe	rproof	covers	(Required when	ordering appliance on	ıly models)						
Model		Color	Wording	Description	Model Color Wo		rding	ding Description			
59AVC-WRFO		Red	FIRE		59VOC-WF	RFO	Red	_	IRE		
59AVC-WWFO	,	White	LINE		59VOC-WV	NFO	White		IINL		
59AVC-WRAO		Red	ALERT	Audible/Visual	59VOC-WF	RAO	Red	٨١	.ERT	Visual Only	
59AVC-WWAO	,	White	ALEKI	Audible/ visual	59VOC-WV	VAO	White	AL	EK I	Visual Offiy	
59AVC-WRSO		Red	Logos only		59VOC-WF	RSO	Red	Logo	os only		
59AVC-WWSO		White	,		59VOC-WV	NSO	White	Logi	os offig		
Surface Mount W	Veather	proof E	Boxes (Required,	ordered separately)							
Model	Color			Descript	ion				Di	mensions	
59WPBB-WR	Red	Surfa	ce mount weathe	rproof single-gang mo	unting box, ir	ncludes wea	atherproc	of			
59WPBB-WW	White		et and painted versions of Model 72219K23 (below). Order from your Simplex act representative. See install instructions 579-1224 for more information.			. ,	2 ¾" W x 2" D				
7219K23	Gray		blank cover (belo	erproof single-gang mounting box; Manufactured by McMaster-Carr; order from electrical product (114 mm x mm)			16 X mm U1 X				
7219K5	Gray	Blank	cover with weath	i			N/A, cover is not used				

Canavata	Euronoon		haak alata	
Separate	European	adabter	back plate	

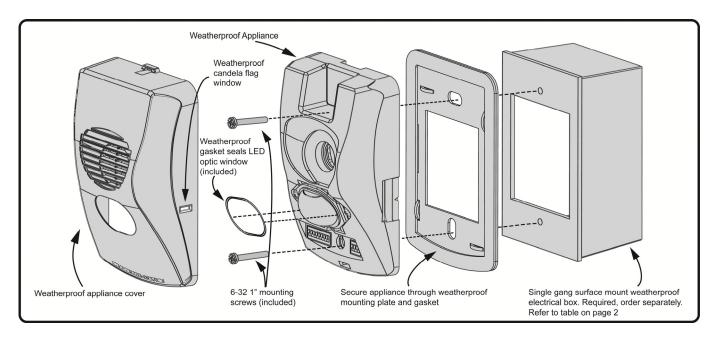
Model	Color	Description
59AP-EUROBB	Black	Wall mounting plate for mounting to UK (Deta DB164), Swiss (Kaiser 9063-01), or German (HSB, NIS Kombi 372501686) back boxes.

^{*} Note: (-BA) indicates model is available either with or without the -BA suffix. Model numbers ending in -BA are assembled in the USA

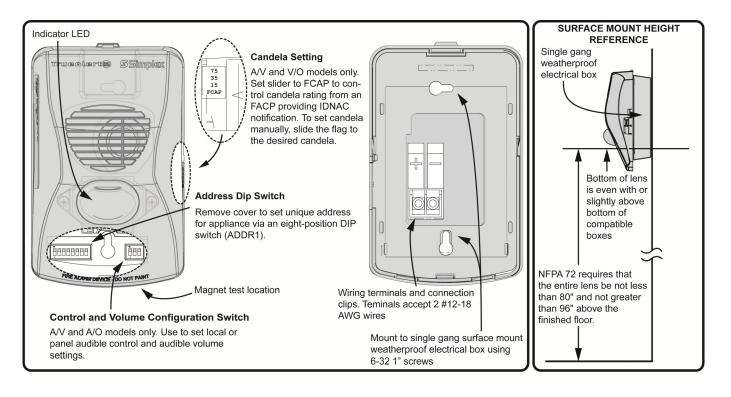
TrueAlert Device Reports Reference

Service Po	rt				Page 1
REPORT 5 :	TrueAlert Device Report		12:34:56am	Fri	8-May-15
		DEVICE			
POINT ID	CUSTOM LABEL	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		

Weatherproof Appliance Installation Reference



Installation and Mounting Height Reference



IDNAC SLC Controller Compatibility Reference

Compatible Controllers	Data Sheet Reference	Controller Output	IDNAC SLC Output Voltage	Appliance Voltage Design Reference	
4100ES with EPS+ or EPS Power Supply	S4100-0100		Voltage Design C. 29 VDC 23		
4009 IDNAC Repeater	S4009-0004	IDNAC SLC		23 VDC	
4007ES with IDNAC Notification	S4007-0002	IDNAC SLC	(regulated)	(with 6 VDC drop)	
4010ES with ESS Enhanced System Supply	S4010-0011				

Specifications

Electrical Ratings

Licotrical Ratings						
Typical Operating Voltage Range	23 VDC to 31 VDC, Special Application					
Supervisory Requirements	1 unit load (= 0.8 mA control panel current)					
IDNAC SLC Loading	Maximum of 127 addresses per SLC, 139 unit loads					
Temperature Range	-40° to 150° F (-40° to 66° C)					
Humidity Range	10% to 93%, non-condensing at 104° F (40° C)					
IDNIA O OL O Mista a Octobili de disco	UTP, unshielded twisted pair recommended					
IDNAC SLC Wiring Specifications (refer to control panel installation instructions for more information)	Maximum wire length allowed with "T-Taps" for Class B wiring per SLC = 10,000 ft (3048 m)					
illistructions for more information)	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 per terminal for in/out wiring					
Installation Instructions	579-1182					

A/V Horn Output Ratings @ 10 ft (3 m) @ 23 VDC

	Sound Type (see Note)	Steady/High	Steady/Low	Coded/High	Coded/Low
Horn Output Ratings	Reverberant Chamber, UL 464 Test	85.2 dB	80.4 dB	81.5 dB	77.3 dB
raings	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 actual installed sound output.

23 VDC RMS Current ratings (UL1971/ULCS526)

Model	Temperature	Candela	15 cd	30 cd	75 cd	110 cd	135 cd	185 cd
V/O	40° to bolow 22° E (40° to	40° to below 22° F (40° to below 0° C)		50 mA	70 mA	143 mA		
A/V	-40° to below 32° F (-40° to below 0° C)		58 mA	71 mA	91 mA	167 mA		
V/O	22° E to 150° E (0° C to 66	2° F to 150° F (0° C to 66° C)		44 mA	60 mA		125 mA	
A/V	32 F 10 150 F (0 C 10 66	C)	51 mA	63 mA	81 mA		143 mA	

Percentage of rated light output at room temperature

Angle	On-Axis		ertical, low Axis	Horizontal, Left/Right of Axis			
	0°	45°	90°	45°	90°		
UL required output	100%	34%	12%	75%	25%		
Typical output	145%	84%	21%	102%	47%		
	Level Decrease	Vertical Angle		Horizontal Angle			
/V Sound Dispersion per ULC-S525	2 40	-3 dB +20° (above axis) +50° (to a constant of the constant of		to right)			
nechoic testing performed at 3 m (10 ft);	-3 UB			-50° (to left)			
eferenced to on-axis = 0°	C 4D	+65° (above axis) +63°		+63° (to right)		
	-6 QB	-6 dB -60° (below			-63° (to left)		

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