PRODUCT INFORMATION

TrueAlert™ ES (STYLE 4 SLC) VISIBLE ONLY NOTIFICATION APPLIANCES 49V0 SERIES WEATHERPROOF

FEATURES:

INDIVIDUALLY ADDRESSED WALL MOUNT VISIBLE NOTIFICATION APPLIANCES WITH EFFICIENT ELECTRONIC HIGH INTENSITY XENON STROBE PROVIDES:

- SUPERVISION OF EACH INDIVIDUAL APPLIANCE'S WIRING AND CONNECTIONS
- ABILITY TO CONNECT USING "T" TAPPING FOR CLASS B/STYLE 4 CIRCUITS TO SIMPLIFY WIRING
- HORNS CONTROLLED SEPARATELY FROM STROBES ON THE SAME 2-WIRE CIRCUIT ALLOWING "ON-UNTIL-SILENCED" AND "ON-UNTIL RESET".
- XENON STROBE OUTPUT IS MANUALLY SELECTABLE FOR 15, 30, 75, 110, 135 AND 185 CANDELA OR "FACP". THE "FACP" SETTING ALLOWS THE 4100 TO PROGRAM THE CANDELA SETTING.
- IN/OUT WIRING ACCESSIBILITY FROM FRONT OF HOUSING PROVIDES EASY ACCESS FOR INSTALLATION, INSPECTION, AND TESTING
- MAGNETIC TEST DIAGNOSTICS TO ASSIST CHECKOUT AND TESTING OF APPLIANCES AND WIRING
- UL LISTED TO STANDARD 1971

LED INDICATOR AND MAGNETIC TEST FEATURE:

- LED INDICTOR CAN BE ELECTED TO DISPLAY EACH POLLING CYCLE TO INDICIATE APPLIANCE SUPERVISION
- WHEN THE TrueAlert CONTROLLER IS IN DIAGNOSTIC MODE, THE MAGNETIC TEST PULSES THE LED TO INDICATE APPLIANCE ADDRESS AND IS SELECTABLE TO ALSO BRIEFLY FLASH THE STROBE TO CONFIRM OPERATION

TrueAlert 2-WIRE ADDRESSABLE CONTROL OF VISIBLE AND AUDIBLE NOTIFICATION ACTIVATES APPLIANCES WITH:

- HORNS SOUNDED AS TEMPORAL OR MARCH TIME PATTERN, OR ON CONTINUOUSLY, CONTROLLED SEPARATELY FROM VISIBLE APPLIANCES ON THE SAME TWO-WIRE CIRCUIT

TrueAlert NOTIFICATION APPLIANCE DESIGN PROVIDES FLEXIBLE, EASY, AND CONVENIENT FLUSH OR SURFACE WALL BOX MOUNTING

APPLIANCE CONFIGURATION SETTINGS

POSITION 1: CONFIGURATION CONTROL – LOCAL (OFF), PANEL (ON)
POSITION 2: AUDIBLE VOLUME – HIGH (OFF), LOW (ON)
POSITION 3: CANADIAN HORN MODE – SET TO OFF
POSITION 4: LEGACY NAC MODE – SET TO OFF
POSITION 5,6,7: UNUSED – SET TO OFF
POSITION 8: CLEAR/COLOR LENS – ALARM (OFF), ALERT (ON)

SURFACE MOUNTING

TrueAlert V/O UNITS- DIP SWITCH ADDRESS CHART

RESERVED FOR FUTURE USE	DIP SWITCHES 5 & 6			
DIP SWITCHES 1 THRU 4	0000	1000	0100	1100
0000	0	16	32	48
1000	1	17	33	49
0100	2	18	34	50
1100	3	19	35	51
0010	4	20	36	52
1010	5	21	37	53
0110	6	22	38	54
1110	7	23	39	55
0001	8	24	40	56
1001	9	25	41	57
0101	10	26	42	58
1101	11	27	43	59
0011	12	28	44	60
1011	13	29	45	61
0111	14	30	46	62
1111	15	31	47	63

MOUNTING INSTRUCTIONS:

1. SET THE APPLIANCE ADDRESS AND CONFIGURATION SETTINGS.
2. BRING THE BUILDING WIRING THROUGH THE RECTANGULAR OPENING IN THE APPLIANCE.
3. ASSEMBLE THE HOUSING ONTO THE WEATHERPROOF BACKBOX ASSURING EVEN CONTACT WITH THE GASKET AROUND THE PERIPHERY.
4. USING THE MOUNTING HOLES INDICATED IN THE FIGURE ABOVE, ASSEMBLE THE HOUSING TO THE BACKBOX. TIGHTEN THE SCREWS TO RECOMMENDED TORQUE
5. ASSEMBLE THE COVER TO THE WEATHERPROOF BACKBOX USING THE SCREWS PROVIDED. TIGHTEN THE SCREWS TO RECOMMENDED TORQUE.

SPECIFICATIONS:

STROBE:
RATED VOLTAGE RANGE: 23 TO 31 VRMS
SUPERVISORY REQUIREMENTS: 1 UNIT LOAD
STROBE FLASH RATE: 1 Hz

MODEL NUMBER	HOUSING COLOR	LETTERING COLOR	VOLTAGE	UL 1971 0°–49° C		UL 1638 TO 0° C		UL 1638 TO –35° C	
				15cd	75cd	WP 75cd	WP 185cd	WP 75cd	WP 185cd
49V0–WRFO(–BA)	RED	WHITE	23 VRMS	0.060	0.160	0.160	0.185	0.212	0.239
49V0–WWFO–BA	WHITE	RED	23 VRMS	0.060	0.160	0.160	0.185	0.212	0.239
49V0–APPLW–O	WP BACKBOX AND COVER ORDERED SEPARATELY		23 VRMS	0.060	0.160	0.160	0.185	0.212	0.239
49V0–APPLW–CO			VOLTAGE	ULC RATINGS					
				20cd	30cd	75cd			
			23 VRMS	0.143	0.150	0.168			
49V0–WRFO–C	RED	WHITE	23 VRMS	0.143	0.150	0.168			

GENERAL SPECIFICATIONS:

HOUSING DIMENSIONS (INCLUDING LENS): 5 1/8" H X 5" W X 2 5/8" D (130 mm X 127 mm X 67 mm)
TEMPERATURE RANGE: –31° TO 120° F (–35° TO 49° C)
HUMIDITY RANGE: 10% TO 93% NON-CONDENSING AT 104° F (40° C)
CONNECTIONS: TERMINAL BLOCKS FOR 18 TO 12 AWG

WIRING NOTES:

1. REFER TO FIELD WIRING DIAGRAMS OF THE DRIVING TrueAlert COMPATIBLE CONTROLLER FOR ADDITIONAL SLC WIRING INFORMATION.
2. NOTIFICATION APPLIANCES ARE RATED PER INDIVIDUAL NAMEPLATE LABEL.
3. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS. DO NOT LOOP WIRES UNDER TERMINALS.
4. ALL TrueAlert SLC WIRING CONNECTIONS ARE SUPERVISED AND POWER-LIMITED.
5. POWERING THE V/O FROM AN APPLIANCE POWER SOURCE LESS THAN 17 VDC OR GREATER THAN 32 VDC MAY CAUSE PERMANENT DAMAGE. TO THE V/O UNIT.
6. THE TrueAlert V/O CAN ONLY BE OPERATED THROUGH A 4009 TrueAlert ADDRESSABLE CONTROLLER OR TrueAlert COMPATIBLE FACP.

PRODUCT INFORMATION

TrueAlert™ ES (STYLE 4 SLC) VISIBLE ONLY NOTIFICATION APPLIANCES 49V0 SERIES

FEATURES:

INDIVIDUALLY ADDRESSED WALL MOUNT VISIBLE NOTIFICATION APPLIANCES WITH EFFICIENT ELECTRONIC HIGH INTENSITY XENON STROBE PROVIDES:

- SUPERVISION OF EACH INDIVIDUAL APPLIANCE'S WIRING AND CONNECTIONS
- ABILITY TO CONNECT USING "T" TAPPING FOR CLASS B/STYLE 4 CIRCUITS TO SIMPLIFY WIRING
- HORNS CONTROLLED SEPARATELY FROM STROBES ON THE SAME 2-WIRE CIRCUIT ALLOWING "ON-UNTIL-SILENCED" AND "ON-UNTIL RESET".
- XENON STROBE OUTPUT IS MANUALLY SELECTABLE FOR 15, 30, 75, 110, 135 AND 185 CANDELA OR "FACP". THE "FACP" SETTING ALLOWS THE 4100 TO PROGRAM THE CANDELA SETTING.
- IN/OUT WIRING ACCESSIBILITY FROM FRONT OF HOUSING PROVIDES EASY ACCESS FOR INSTALLATION, INSPECTION, AND TESTING
- MAGNETIC TEST DIAGNOSTICS TO ASSIST CHECKOUT AND TESTING OF APPLIANCES AND WIRING
- UL LISTED TO STANDARD 1971

LED INDICATOR AND MAGNETIC TEST FEATURE:

- LED INDICTOR CAN BE ELECTED TO DISPLAY EACH POLLING CYCLE TO INDICIATE APPLIANCE SUPERVISION
- WHEN THE TrueAlert CONTROLLER IS IN DIAGNOSTIC MODE, THE MAGNETIC TEST PULSES THE LED TO INDICATE APPLIANCE ADDRESS AND IS SELECTABLE TO ALSO BRIEFLY FLASH THE STROBE TO CONFIRM OPERATION

TrueAlert 2-WIRE ADDRESSABLE CONTROL OF VISIBLE AND AUDIBLE NOTIFICATION ACTIVATES APPLIANCES WITH:

- HORNS SOUNDED AS TEMPORAL OR MARCH TIME PATTERN, OR ON CONTINUOUSLY, CONTROLLED SEPARATELY FROM VISIBLE APPLIANCES ON THE SAME TWO-WIRE CIRCUIT

APPLIANCE CONFIGURATION SETTINGS

POSITION 1: CONFIGURATION CONTROL – LOCAL (OFF), PANEL (ON)
POSITION 2: AUDIBLE VOLUME – HIGH (OFF), LOW (ON)
POSITION 3: CANADIAN HORN MODE – SET TO OFF
POSITION 4: LEGACY NAC MODE – SET TO OFF
POSITION 5,6,7: UNUSED – SET TO OFF
POSITION 8: CLEAR/COLOR LENS – ALARM (OFF), ALERT (ON)

SEMI-FLUSH MOUNTING

TrueAlert V/O UNITS- DIP SWITCH ADDRESS CHART

RESERVED FOR FUTURE USE	DIP SWITCHES 5 & 6			
DIP SWITCHES 1 THRU 4	0000	1000	0100	1100
0000	0	16	32	48
1000	1	17	33	49
0100	2	18	34	50
1100	3	19	35	51
0010	4	20	36	52
1010	5	21	37	53
0110	6	22	38	54
1110	7	23	39	55
0001	8	24	40	56
1001	9	25	41	57
0101	10	26	42	58
1101	11	27	43	59
0011	12	28	44	60
1011	13	29	45	61
0111	14	30	46	62
1111	15	31	47	63

MOUNTING INSTRUCTIONS:

1. BRING THE BUILDING WIRING THROUGH THE RECTANGULAR OPENING IN THE BACKPLATE.
2. CONNECT THE BUILDING WIRES TO THE BACKPLATE.
3. SECURE THE BACKPLATE TO THE ELECTRICAL BOX BY USING THE PROVIDED HARDWARE. INSTALLED WITH THE WRITING "INSTALL THIS SIDE UP" AT THE TOP.
4. ATTACH THE COVER TO THE APPLIANCE.
5. SET THE APPLIANCE ADDRESS AND CONFIGURATION SETTINGS.
6. ATTACH THE ASSEMBLED APPLIANCE ONTO THE BACKPLATE.

SPECIFICATIONS:

STROBE:
RATED VOLTAGE RANGE: 17 TO 31 VRMS
SUPERVISORY REQUIREMENTS: 1 UNIT LOAD
STROBE FLASH RATE: 1 Hz

MODEL NUMBER	COVER COLOR	LETTERING COLOR	LENS COLOR	CURRENT VALUES ARE UL 1971 MAX RATING FOR THE GIVEN VOLTAGE LEVEL						
				VOLTAGE	15cd	30cd	75cd	110cd	135cd	185cd
49V0–WRF(–BA)	RED	WHITE	CLEAR	23 VRMS	0.047	0.057	0.100	0.132	0.160	0.208
				17 VRMS	0.062	0.075	0.133	0.178	**0.214	**0.281
			AMBER/ BLUE	23 VRMS	0.054	0.078	0.128	0.184	0.211	NOT SUPPORTED
				17 VRMS	0.067	0.103	0.171	0.250	**0.282	
49V0–WWF(–BA)	WHITE	RED	GREEN		*10cd	*20cd	*45cd	*75cd	*95cd	
				23 VRMS	0.054	0.078	0.128	0.184	0.211	
				17 VRMS	0.067	0.103	0.171	0.250	**0.282	
			RED		*3cd	*7cd	*15cd	*30cd	*37cd	
				23 VRMS	0.054	0.078	0.128	0.184	0.211	
				17 VRMS	0.067	0.103	0.171	0.250	**0.282	

* VISIBLE OUTPUT RATING FOR THE GIVEN LENS COVER COLOR AT THE APPLIANCE SETTING.
** 17 VOLT CURRENT SHOWN AT THE HIGH CANDELA SETTINGS IS FOR USE WITH 4009T ONLY.

GENERAL SPECIFICATIONS:

HOUSING DIMENSIONS (INCLUDING LENS): 5 1/8" H X 5" W X 2 5/8" D (130 mm X 127 mm X 67 mm)
TEMPERATURE RANGE: 32° TO 120° F (0° TO 49° C)
HUMIDITY RANGE: 10% TO 93% NON-CONDENSING AT 104° F (40° C)
CONNECTIONS: TERMINAL BLOCKS FOR 18 TO 12 AWG

WIRING NOTES:

1. REFER TO FIELD WIRING DIAGRAMS OF THE DRIVING TrueAlert COMPATIBLE CONTROLLER FOR ADDITIONAL SLC WIRING INFORMATION.
2. NOTIFICATION APPLIANCES ARE RATED PER INDIVIDUAL NAMEPLATE LABEL.
3. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS. DO NOT LOOP WIRES UNDER TERMINALS.
4. ALL TrueAlert SLC WIRING CONNECTIONS ARE SUPERVISED AND POWER-LIMITED.
5. POWERING THE V/O FROM AN APPLIANCE POWER SOURCE LESS THAN 17 VDC OR GREATER THAN 32 VDC MAY CAUSE PERMANENT DAMAGE. TO THE V/O UNIT.
6. THE TrueAlert V/O CAN ONLY BE OPERATED THROUGH A 4009 TrueAlert ADDRESSABLE CONTROLLER OR TrueAlert COMPATIBLE FACP.

PRODUCT INFORMATION

TrueAlert™ ES (STYLE 4 SLC) AUDIBLE/VISIBLE NOTIFICATION APPLIANCES 49AV SERIES

FEATURES:

INDIVIDUALLY ADDRESSED WALL MOUNT AUDIBLE/VISIBLE NOTIFICATION APPLIANCES WITH EFFICIENT ELECTRONIC HORN AND HIGH INTENSITY XENON STROBE PROVIDES:

- SUPERVISION OF EACH INDIVIDUAL APPLIANCE'S WIRING AND CONNECTIONS
- ABILITY TO CONNECT USING "T" TAPPING FOR CLASS B/STYLE 4 CIRCUITS TO SIMPLIFY WIRING
- HORNS CONTROLLED SEPARATELY FROM STROBES ON THE SAME 2-WIRE CIRCUIT ALLOWING "ON-UNTIL-SILENCED" AND "ON-UNTIL RESET" USING A SINGLE ADDRESS
- XENON STROBE OUTPUT IS MANUALLY SELECTABLE FOR 15, 30, 75, 110, 135 AND 185 CANDELA OR "FACP". THE "FACP" SETTING ALLOWS THE 4100 TO PROGRAM THE CANDELA SETTING.
- IN/OUT WIRING ACCESSIBILITY FROM FRONT OF HOUSING PROVIDES EASY ACCESS FOR INSTALLATION, INSPECTION, AND TESTING
- MAGNETIC TEST DIAGNOSTICS TO ASSIST CHECKOUT AND TESTING OF APPLIANCES AND WIRING
- UL LISTED TO STANDARD 1971 FOR STROBE
- UL LISTED TO STANDARD 464 FOR HORN

LED INDICATOR AND MAGNETIC TEST FEATURE:

- LED INDICTOR CAN BE ELECTED TO DISPLAY EACH POLLING CYCLE TO INDICIATE APPLIANCE SUPERVISION
- WHEN THE TrueAlert CONTROLLER IS IN DIAGNOSTIC MODE, THE MAGNETIC TEST PULSES THE LED TO INDICATE APPLIANCE ADDRESS AND IS SELECTABLE TO ALSO BRIEFLY FLASH THE STROBE TO CONFIRM OPERATION

TrueAlert 2-WIRE ADDRESSABLE CONTROL OF VISIBLE AND AUDIBLE NOTIFICATION ACTIVATES APPLIANCES WITH:

- HORNS SOUNDED AS TEMPORAL OR MARCH TIME PATTERN, OR ON CONTINUOUSLY, CONTROLLED SEPARATELY FROM VISIBLE APPLIANCES ON THE SAME TWO-WIRE CIRCUIT

APPLIANCE CONFIGURATION SETTINGS

POSITION 1: CONFIGURATION CONTROL – LOCAL (OFF), PANEL (ON)
POSITION 2: AUDIBLE VOLUME – HIGH (OFF), LOW (ON)
POSITION 3: CANADIAN HORN MODE – SET TO OFF
POSITION 4: LEGACY NAC MODE – SET TO OFF
POSITION 5,6,7: UNUSED – SET TO OFF
POSITION 8: CLEAR/COLOR LENS – ALARM (OFF), ALERT (ON)

SEMI-FLUSH MOUNTING

TrueAlert A/V UNITS- DIP SWITCH ADDRESS CHART

RESERVED FOR FUTURE USE	DIP SWITCHES 5 & 6			
DIP SWITCHES 1 THRU 4	0000	1000	0100	1100
0000	0	16	32	48
1000	1	17	33	49
0100	2	18	34	50
1100	3	19	35	51
0010	4	20	36	52
1010	5	21	37	53
0110	6	22	38	54
1110	7	23	39	55
0001	8	24	40	56
1001	9	25	41	57
0101	10	26	42	58
1101	11	27	43	59
0011	12	28	44	60
1011	13	29	45	61
0111	14	30	46	62
1111	15	31	47	63

MOUNTING INSTRUCTIONS:

1. BRING THE BUILDING WIRING THROUGH THE RECTANGULAR OPENING IN THE BACKPLATE.
2. CONNECT THE BUILDING WIRES TO THE BACKPLATE.
3. SECURE THE BACKPLATE TO THE ELECTRICAL BOX BY USING THE PROVIDED HARDWARE. INSTALLED WITH THE WRITING "INSTALL THIS SIDE UP" AT THE TOP.
4. ATTACH THE COVER TO THE APPLIANCE.
5. SET THE APPLIANCE ADDRESS AND CONFIGURATION SETTINGS.
6. ATTACH THE ASSEMBLED APPLIANCE ONTO THE BACKPLATE.

SPECIFICATIONS:

STROBE: RATED VOLTAGE RANGE: 17 TO 31 VRMS
SUPERVISORY REQUIREMENTS: 1 UNIT LOAD STROBE FLASH RATE: 1 Hz

MODEL NUMBER	HOUSING COLOR	LETTERING COLOR	LENS COLOR	CURRENT VALUES ARE UL 1971 MAX RATING FOR THE GIVEN VOLTAGE LEVEL						
				VOLTAGE	15cd	30cd	75cd	110cd	135cd	185cd
49AV–WRF(–BA)	RED	WHITE	CLEAR	23 VRMS	0.059	0.067	0.107	0.139	0.166	0.215
49AV–WWF(–BA)	WHITE	RED		17 VRMS	0.074	0.085	0.140	0.185	**0.221	**0.290
			AMBER/ BLUE	23 VRMS	0.066	0.088	0.137	0.192	0.219	NOT SUPPORTED
				17 VRMS	0.079	0.113	0.180	0.258	**0.290	
		COLORED LENS KIT ORDERED SEPARATELY			*10cd	*20cd	*45cd	*75cd	*95cd	
			GREEN	23 VRMS	0.066	0.088	0.137	0.192	0.219	NOT SUPPORTED
				17 VRMS	0.079	0.113	0.180	0.258	**0.290	
					*3cd	*7cd	*15cd	*30cd	*37cd	
			RED	23 VRMS	0.066	0.088	0.137	0.192	0.219	NOT SUPPORTED
				17 VRMS	0.079	0.113	0.180	0.258	**0.290	

* VISIBLE OUTPUT RATING FOR THE GIVEN LENS COVER COLOR AT THE APPLIANCE SETTING.
** FOR USE WITH 4009T ONLY.

HORN: SOUND OUTPUT CHARACTERISTICS: 2400 TO 3700 Hz SWEEP, MODULATED AT 120 Hz

VOLTAGE	17 VRMS				23 VRMS				31 VRMS			
SOUND TYPE	STEADY		CODED		STEADY		CODED		STEADY		CODED	
SETTING	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
REVERBERANT CHAMBER, UL 464 TEST	87.8	81.6	83.4	77.0	90.1	83.6	85.7	80.1	91.9	86.9	87.9	82.1
ANECHOIC CHAMBER	91.7	85.4	91.7	85.4	94.1	88.1	94.1	88.1	96.1	90.6	96.1	90.6

HORN SOUND OUTPUT (dBA) @ 10 FT. (3m):

GENERAL SPECIFICATIONS:

HOUSING DIMENSIONS (INCLUDING LENS): 5 1/8" H X 5" W X 2 5/8" D (130 mm X 127 mm X 67 mm)
TEMPERATURE RANGE: 32° TO 120° F (0° TO 49° C)
HUMIDITY RANGE: 10% TO 93% NON-CONDENSING AT 104° F (40° C)
CONNECTIONS: TERMINAL BLOCKS FOR 18 TO 12 AWG

WIRING NOTES:

1. REFER TO FIELD WIRING DIAGRAMS OF THE DRIVING TrueAlert COMPATIBLE CONTROLLER FOR ADDITIONAL SLC WIRING INFORMATION.
2. NOTIFICATION APPLIANCES ARE RATED PER INDIVIDUAL NAMEPLATE LABEL.
3. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS. DO NOT LOOP WIRES UNDER TERMINALS.
4. ALL TrueAlert SLC WIRING CONNECTIONS ARE SUPERVISED AND POWER-LIMITED.
5. POWERING THE A/V FROM AN APPLIANCE POWER SOURCE LESS THAN 17 VDC OR GREATER THAN 32 VDC MAY CAUSE PERMANENT DAMAGE. TO THE A/V UNIT.
6. THE TrueAlert A/V CAN ONLY BE OPERATED THROUGH A 4009 TrueAlert ADDRESSABLE CONTROLLER OR TrueAlert COMPATIBLE FACP.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/03/15

tyco Simplex
Safer. Smarter. Tyco.™
DISTRICT - 147
20 THOMAS DRIVE
WESTBROOK, ME 04092
SERVICE: 207-842-6440
PHONE: 20
FAX: 20

PRESS HOTEL

PRESS HOTEL
119 EXCHANGE ST
PORTLAND, ME

ISSUE LOG:				
MARK	DATE	CAD	CHK	DESCRIPTION
	5-8-14	JD	KG	REVISED PER ENGINEERS COMMENTS & ADDED AOR SYSTEM

Revisions shown with ☁ revised

DRAWN BY:	JD
CHECKED BY:	IG
ISSUE DATE:	4/24/14
JOB #:	977465501
PROJECT #:	147:PRE-BOOKED

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SYSTEM:
FIRE ALARM SYSTEM

SHEET:
WIRING TYPICALS

FA-703

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24" x 36" - Arch D Size