TrueAlert™ NON-ADDRESSABLE MULTI-CANDELA AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (CEILING MOUNT)

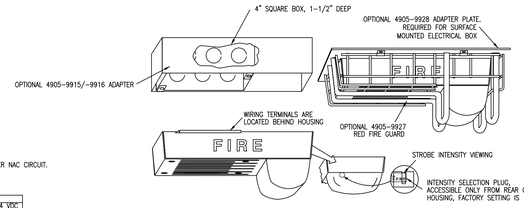
PRODUCT INFORMATION

FEATURES:

- CLASS B (STYLE Y) OPERATION REQUIRES CONNECTION TO A COMPATIBLE SMARTSYNC NAC OR TO SMARTSYNC CONTROL MODULE (SCM) 4905–9938
- CLASS A (STYLE Z) OPERATION WHEN CONNECTED TO THE 4905–9938 SCM OR 4100 SERIES FIRE ALARM CONTROL PANEL NAC'S

SPECIFICATIONS:

- HOUSING DIMENSIONS (INCLUDING LENS) : 4–3/4"L X 6–7/8" W X 2–5/8"D
- TEMPERATURE RANGE: 32° F TO 122° F (0° TO 50° C)
- HUMIDITY RANGE: 10% TO 93% NON–CONDENSING AT 100° F (38° C)
- TERMINAL BLOCKS FOR 18 AWG TO 12 AWG; TWO WIRES PER TERMINAL FOR IN/OUT WIRING.



STROBE

- RATED VOLTAGE RANGE: UL: 16 VDC TO 33 VDC PER UL 1971
  ULC: 20VDC TO 30VDC PER ULC S526–M878
- FLASH RATE: 1Hz
- SYNCHRONIZED MODE NAC LOADING: MAXIMUM OF 35 SYNCHRONIZED STROBES PER NAC CIRCUIT.

*CURRENT DRAWS REFLECT STROBE FLASHING AND HORN ON.

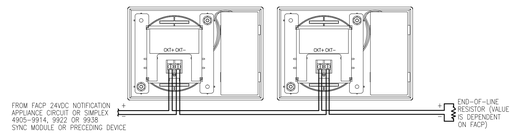
MODEL NUMBER	HOUSING COLOR	LETTERING COLOR	STROBE RATING	RMS CURRENT ❶ 16 VDC	18 VDC	24 VDC
4906–9128	RED	WHITE	15cd	86 mA	76 mA	57 mA
			30cd	132 mA	117 mA	88 mA
			75cd	250 mA	222 mA	167 mA
			110cd	320 mA	284 mA	213 mA
4906–9130	WHITE	RED	15cd	86 mA	76 mA	57 mA
			30cd	132 mA	117 mA	88 mA
			75cd	250 mA	222 mA	167 mA
			110cd	320 mA	284 mA	213 mA

HORN

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

HORN SOUND OUTPUT RATINGS ❶ 10 FT. (3m)						
VOLTAGE	16 VDC		24 VDC		33 VDC	
SOUND TYPE *	STEADY	CODED	STEADY	CODED	STEADY	CODED
REVERBERATE CHAMBER UL 464 TEST	86 dBA	82 dBA	88 dBA	84 dBA	90 dBA	86 dBA
ANECHOIC CHAMBER	92 dBA	91 dBA	94 dBA	95 dBA	96 dBA	96 dBA

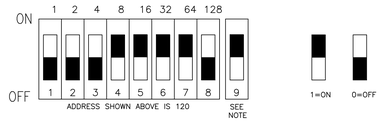
* CODED VALUES ARE TYPICAL OF THE OUTPUT MEASURED WITH A TEMPORAL CODED OR A MARCH TIME CODED PULSE AND WITH A SOUND LEVEL METER READING ON A "FAST" SETTING. UNDER THE SAME TEST CONDITIONS, CODED HORN OUTPUT "PEAK" SOUND LEVEL READINGS ARE TYPICALLY 4 dBA HIGHER.



IDNET DIP SWITCH SETTINGS

IDNET ADDRESSING

DO NOT USE ADDRESS 0 FOR AN IDNET ADDRESS



DIP SWITCHES 5 THRU 8

DIP SWITCHES 1 THRU 4

	0000	1000	0100	1100	0010	1010	0110	1110	0001	1001	0101	1101	0011	1011	0111	1111
0000	❶	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1000	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
0100	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
1100	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
0010	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
1010	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
0110	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
1110	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
0001	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
1001	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
0101	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
1101	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	❷❺❶
0011	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	❷❺❷
1011	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	❷❺❸
0111	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	❷❺❹
1111	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	❷❺❺

NOTE: THE 4098–9771, –9794, –9795, –9798 SOUNDER BASES HAVE A 9–POSITION DIP SWITCH. THE FIRST EIGHT DIP SWITCHES SET THE SOUNDER BASE ADDRESS. DIP SWITCH POSITION 9 IS SET TO OFF OR ON DEPENDING UPON THE SOUNDER BASE POWER SOURCE. WHEN THE SOUNDER BASE IS CONNECTED TO A 24 VDC POWER SOURCE, DIP SWITCH POSITION 9 IS SET TO 'OFF' AND THE 24 VDC POWER IS SUPERVISED BY THE SOUNDER BASE. WHEN THE SOUNDER BASE IS POWERED BY THE FIRNET/I NOTIFICATION APPLIANCE CIRCUIT (NAC), DIP SWITCH POSITION 9 IS SET TO 'ON' AND THE POWER IS SUPERVISED BY THE NAC AND NOT THE SOUNDER BASE. THE 4098–9770 AND –9797 BASES HAVE THE SAME LAYOUT, BUT DOESNT OFFER SOUNDER FUNCTIONALITY. THEY USE AN 8–WAY DIP SWITCH ONLY.

2190–9161 CLASS B SIGNAL ZAM W/ 24 VDC STROBE

PRODUCT INFORMATION

SPECIFICATIONS:

- DEVICE QTY: 127 MAPNET II DEVICES ON A SINGLE PAIR OF WIRES
- OPERATING TEMPERATURE RANGE: 32° F TO 120° F
- HUMIDITY RANGE: 85% NON–CONDENSING @ 86° F
- OUTPUT CAPACITY IS UP TO 2A @ 24 VDC
- SUPERVISORY DC CURRENT: 15 mA } MAX LOAD PER ZAM
- ALARM DC CURRENT: 40 mA

DESCRIPTION:

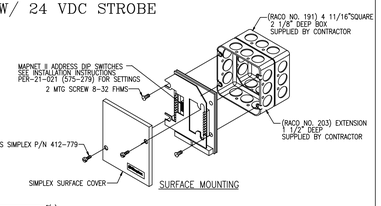
SIGNAL ZAMS ARE USED TO SUPERVISE AND OPERATE 24 VDC NOTIFICATION APPLIANCES, SPEAKERS, AND TELEPHONE CIRCUITS.

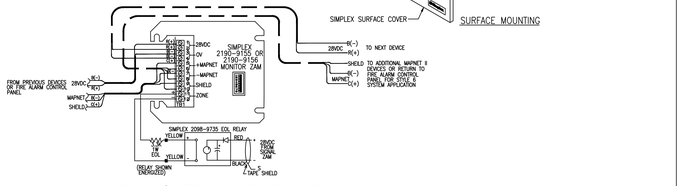
GENERAL WIRE NOTES:

1. MAPNET II LINES ARE TO BE #18 AWG TWISTED SHIELDED PAIR (CONSULT YOUR LOCAL SIMPLEX BRANCH FOR EXCEPTIONS).
2. MAXIMUM ALLOWABLE LINE RUN,FROM 4020 OR 4100 OR 4120 TO FARTHEST DEVICE, NOT TO EXCEED 2500 FEET.
3. MAXIMUM TOTAL WIRE (INCLUDING ALL T–TAPS) ON CIRCUIT, FROM 4020 OR 4100 OR 4120 NOT TO EXCEED 10,000 FEET.
4. FOR MAXIMUM VOLTAGE DROP,ETC.,REFER TO STR SALES ENGINEERING'S 4020 OR 4100 OR 4120 FIELD WIRING GUIDE.
5. MAX QTY OF DEVICES PER CIRCUIT: 127 IF 4020 OR 4100 OR 4120 SYSTEM.
6. MINIMUM NO. 14 AWG WIRE FOR 28 VDC WIRING, OR TO LOCAL CODE.
7. RIPPLE VOLTAGE ALLOWED: 100% / 120 Hz
8. NOTIFICATION APPLIANCE DEVICES RATED 21–30 VDC, STR MODEL NUMBERS: BELLS 2901–9331, –9332, OR –9333 CHIME 2902–9207 HORNS 2901–9838, –9839, –9840, OR –9841
9. SEE INSTALLATION INSTRUCTIONS 575–279
10. WHEN COMMUNICATION WIRING OR OPERATING WIRING LEAVES THE BUILDING, OVERVOLTAGE PROTECTORS ARE ARE REQUIRED.

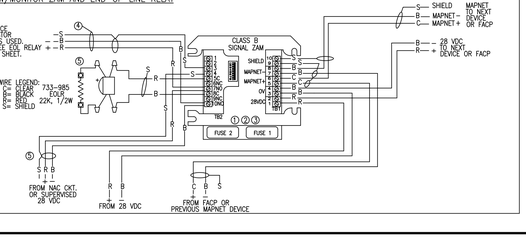
KEY WIRE NOTES:

1. ZAM POWER MUST NOT BE USED FOR STROBES.
2. USE PEAK CURRENT OF STROBES FOR CIRCUIT CAPACITY
3. MOUNT ZAMS AT LEAST 3 FEET FROM STROBE.
4. USE END–OF–LINE RESISTOR IF CONNECTED TO NAC CIRCUIT (FACP DEPENDENT). USE END OF LINE SUPERVISION RELAY FOR 28VDC CONNECTION. SEE DETAIL ON THIS SHEET.
5. STROBE CIRCUIT AND STROBE POWER MUST BE TWISTED SHIELDED PAIR.





END–OF–LINE W/MONITOR ZAM AND END–OF–LINE RELAY



TrueAlert™ NON-ADDRESSABLE MULTI-CANDELA VISIBLE NOTIFICATION APPLIANCE (CEILING MOUNT)

PRODUCT INFORMATION

FEATURES:

- UL LISTED TO STANDARD 1971
- ADA COMPATIBLE

SYNCHRONIZATION FLASH RATE MODE FOR USE WITH:

- SEPARATE STROBE SYNCHRONIZATION MODULES THAT ARE AVAILABLE FOR CLASS B OR CLASS A OPERATION
- SEPARATE SMARTSYNC CONTROL MODULES (SCMs) THAT PROVIDE CLASS B OR CLASS A OUTPUT FROM CONVENTIONAL NAC INPUTS

SPECIFICATIONS:

- HOUSING DIMENSIONS: 4–3/4" L X 2–5/16" W X 2–5/8" D (121mm X 75mm X 67mm)
- TEMPERATURE RANGE: 32°F TO 122°F (0 TO 50°C)
- HUMIDITY RANGE: 10% TO 93% NON–CONDENSING AT 100°F (38°C)
- TERMINAL BLOCKS FOR 18AWG TO 12AWG; TWO WIRES PER TERMINAL FOR IN/OUT WIRING.

WIRING NOTES:

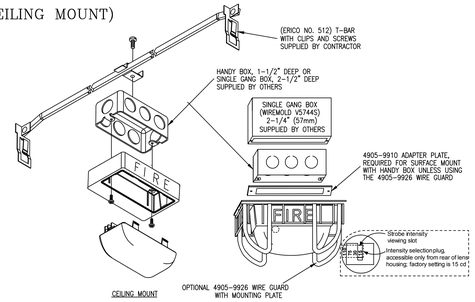
1. NOTIFICATION APPLIANCES ARE RATED PER INDIVIDUAL NAMEPLATE LABEL.
2. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS. DO NOT LOOP WIRES UNDER TERMINALS.
3. ALL NAC WIRING CONNECTIONS ARE SUPERVISED AND POWER–LIMITED.
4. SEE INSTALLATION INSTRUCTIONS (579–548) FOR ADDITIONAL INFORMATION.

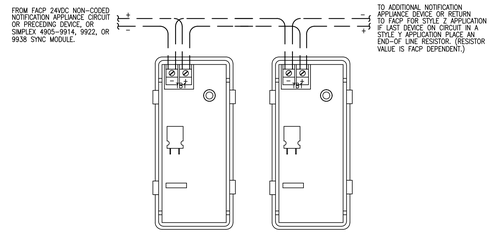
STROBE:

- RATED VOLTAGE RANGE: UL LISTED: 16 VDC TO 33 VDC PER UL 1971
  ULC LISTED: 20 VDC TO 30 VDC PER ULC S526–M878
- FLASH RATE: 1Hz
- SYNCHRONIZED MODE NAC LOADING: MAXIMUM OF 35 SYNCHRONIZED STROBES PER NAC CIRCUIT.

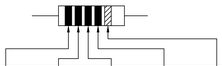
*CURRENT DRAWS REFLECT STROBE FLASHING

MODEL NUMBER	HOUSING COLOR	LETTERING COLOR	STROBE RATING	RMS CURRENT ❶ 16 VDC	18 VDC	24 VDC
4906–9102	RED	WHITE	15cd	75 mA	67 mA	50 mA
			30cd	125 mA	111 mA	83 mA
			75cd	233 mA	207 mA	155 mA
			110cd	316 mA	281 mA	211 mA
4906–9104	WHITE	RED	15cd	75 mA	67 mA	50 mA
			30cd	125 mA	111 mA	83 mA
			75cd	233 mA	207 mA	155 mA
			110cd	316 mA	281 mA	211 mA





END–OF–LINE RESISTOR CODES



NOTE: REFER TO PANEL/MODULE AND DEVICE INSTALLATION INSTRUCTIONS FOR PROPER TERMINATIONS.

* USE WITH RETROFIT OR HIGH CURRENT MODULE

MODEL	REFERENCE NUMBER	OHMS	1ST BAND	2ND BAND	3RD BAND	4TH BAND	5TH BAND	WATTS	CIRCUIT TYPE	FIRE ALARM PANEL/MODULE
4081–9001	733–892	2.2K	RED	RED	RED	GOLD	N/A	1/2	ANNUNCIATOR (4300)	4004, 4010 (TROUBLE)
4081–9002	733–893	3.3K	ORANGE	ORANGE	RED	GOLD	N/A	1	N.O. INITIATING PULL, SMOKE, HEAT, WATERFLOW, TAMPER, ETC.	4004*, 4004R, 4005*, 4006, 4100, 4120, 4100U, ZAM'S
									24 PT. I/O SWITCH SUPV.	4605–7401, 4100 SERIES
4081–9003	733–896	4.7K	YELLOW	VIOLET	RED	GOLD	N/A	1/2	CURRENT LIMITED N.O. INITIATING NOTIFICATION (DACT)	4090–9001 IDNET IAM (EOLR) 2080–9024
4081–9004	733–886	6.8K	BLUE	GREY	RED	GOLD	N/A	1/2	N.O. INITIATING PULL, SMOKE, HEAT, WATERFLOW, TAMPER, ETC.	4004, 4005, 4090–9001 IDNET IAM 2190–9173 MAPNETII 2 PT I/O 4–20MA ZAM (TROUBLE)
4081–9005	733–984	1.8K	BROWN	GREY	RED	GOLD	N/A	1/2	CURRENT LIMITED N.O. INITIATING (IN LINE)	4090–9001 IDNET IAM
4081–9006	733–890	560Ω	GREEN	BLUE	BROWN	GOLD	N/A	1	N.C. INITIATING (EOLR)	4005*, 4090–9001 IDNET IAM 4100, 4100U
4081–9007	733–891	1.2K	BROWN	RED	RED	GOLD	N/A	1	N.C. INITIATING (EOLR)	4005
4081–9008	733–894	10K	BROWN	BLACK	ORANGE	GOLD	N/A	1/2	NOTIFICATION	4004, 4005, 4006, 4008, 4009, 4010, 4100, 4100U
4081–9009	733–912	20Ω	RED	BLACK	BLACK	GOLD	N/A	1	TO MR–101 RELAY COIL	4005 8 POINT I/O
4081–9010	733–973	1K	BROWN	BLACK	RED	GOLD	N/A	1	N.C. INITIATING (ACROSS CONTACTS)	4005*, 4090–9001 IDNET IAM
									24 PT. I/O (ACROSS CONTACTS)	4605–7401, 4100 SERIES
									CURRENT LIMITED N.O. INITIATING (IN SERIES WITH CONTACT)	4090–9001 IDNET IAM
4081–9011	733–974	100Ω	BROWN	BLACK	BROWN	GOLD	N/A	1/2	ANNUNCIATOR (N2)	4006, 4008, 4010
4081–9012	733–985	22K	RED	RED	ORANGE	GOLD	N/A	1/2	SPEAKER CIRCUIT	4003
4081–9013	734–086	4.99K	YELLOW	WHITE	WHITE	BROWN	BROWN	1/2		
4081–9014	734–092	2.4K	RED	YELLOW	RED	GOLD	N/A	1/2	N.C. INITIATING (SECURITY MONITORING EOLR)	4090–9001 IDNET IAM
4081–9015	734–093	1.5K	BROWN	GREEN	RED	GOLD	N/A	1/2	CURRENT LIMITED N.O. INITIATING (SECURITY MONITORING EOLR)	4090–9001 IDNET IAM
4081–9016	734–149	150K	BROWN	GREEN	YELLOW	GOLD	N/A	1/2		
4081–9017	734–171	3.9K	ORANGE	WHITE	RED	GOLD	N/A	1		
4081–9018	734–168	10K	BROWN	BLACK	ORANGE	GOLD	N/A	1	70VRMS CONSTANT SUPV. NACS	4100–1260
	378–090	8.2K	GRAY	RED	RED	GOLD	N/A	1/2	SECURITY MONITORING (EOLR)	4100, 4100U
	378–046	5.6K	GREEN	BLUE	RED	GOLD	N/A	1/2	N.O. SECURITY MON. (SERIES)	4100, 4100U
	378–069	12K	BROWN	RED	ORANGE	GOLD	N/A	1/2	N.C. SECURITY MON. (SHUNT)	4100, 4100U

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unum

UNUM WORKPLACE TRANSFORMATION - HO2

UNUM HO2
2211 CONGRESS ST, MAIL STOP B146
PORTLAND, ME 04102-1941

ISSUE LOG				
MARK	DATE	CAD	CHK	DESCRIPTION

Revisions shown with ▲ symbol

DRAWN BY:	PRANESH
CHECKED BY:	AO
ISSUE DATE:	11/3/17
JOB #:	602887501
PROJECT #:	147:
SIMPLEXGRINNELL ©	2017

SYSTEM: FIRE ALARM SYSTEM

SHEET: WIRING TYPICALS

FA-702

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30" x 42" - Arch E1 Size