

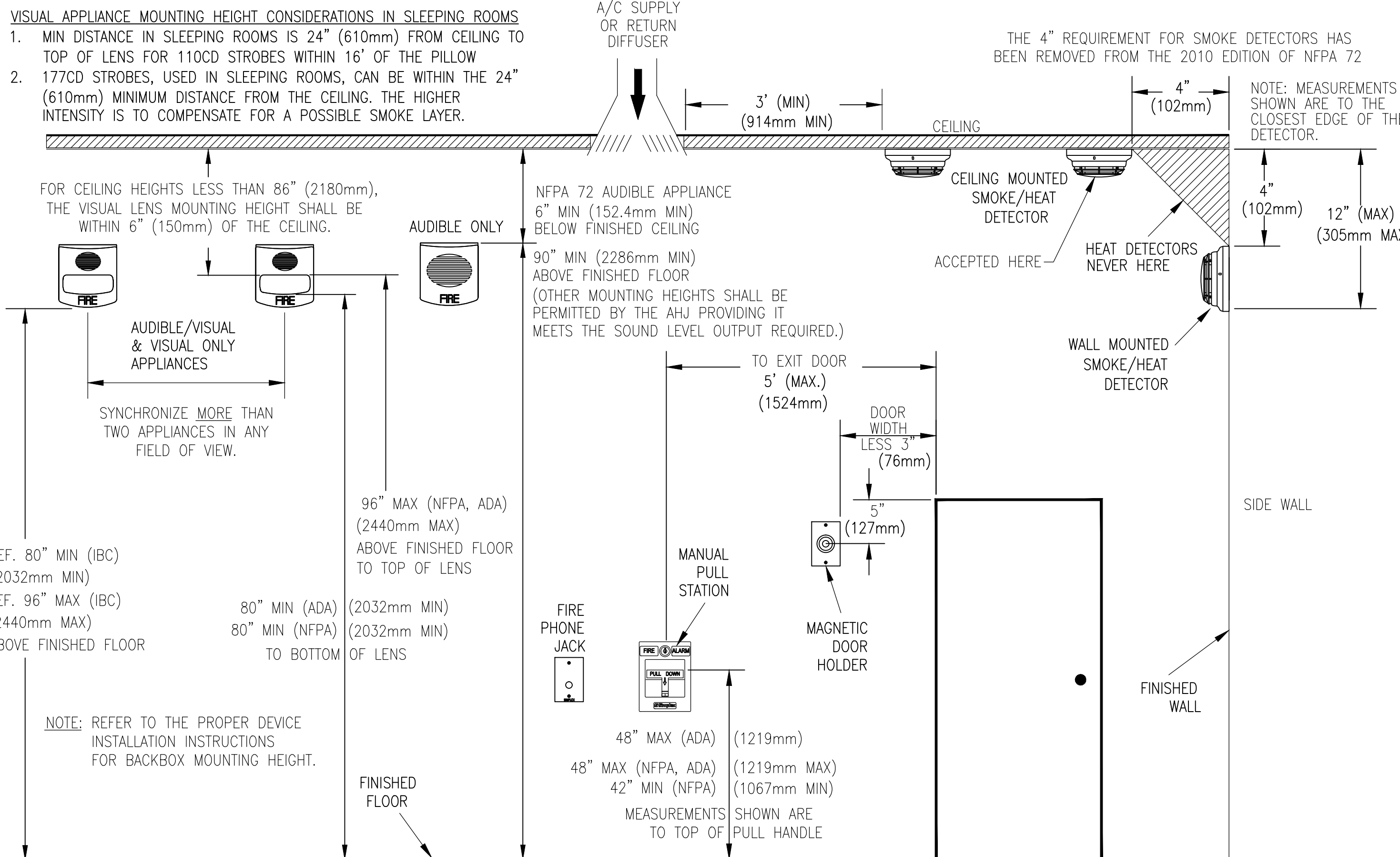
FILE PATH: P:\2015\147131\Johnson Red\SIG Dwg\Original\Drawings & Callouts\FA-701.dwg

LAST SAVED BY: GLORION

LAST PRINTED: 6/22/2015 9:25:07 AM

24 x 36" Arch D Size

### DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)



**VISUAL APPLIANCE MOUNTING HEIGHT CONSIDERATIONS IN SLEEPING ROOMS**  
 1. MIN DISTANCE IN SLEEPING ROOMS IS 24" (610mm) FROM CEILING TO TOP OF LENS FOR 110CD STROBES WITHIN 16" OF THE PILLOW  
 2. 177CD STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN THE 24" (610mm) MINIMUM DISTANCE FROM THE CEILING. THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER.

FOR CEILING HEIGHTS LESS THAN 86" (2180mm), THE VISUAL LENS MOUNTING HEIGHT SHALL BE WITHIN 6" (150mm) OF THE CEILING.

FOR CEILING HEIGHTS LESS THAN 86" (2180mm), THE VISUAL LENS MOUNTING HEIGHT SHALL BE WITHIN 6" (150mm) OF THE CEILING.

REF. 80" MIN (IBC) (2032mm MIN)  
REF. 96" MAX (IBC) (2440mm MAX)

NOTE: REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT.

### 4098-9792 STANDARD SENSOR BASE

**FEATURES:**

- UL LISTED, FM APPROVED
- TRUEALARM ANALOG SENSING PROVIDES DIGITAL TRANSMISSION OF ANALOG SENSOR VALUES VIA MAPNET/IDNt SLC TWO WIRE COMMUNICATIONS
- FIRE ALARM CONTROL PANEL PROVIDES:
  - INDIVIDUAL SENSITIVITY SELECTION FOR EACH SENSOR
  - PEAK VALUE LOGGING-ALLOWING ACCURATE ANALYSIS FOR SENSITIVITY SELECTION
  - AUTOMATIC ENVIRONMENTAL COMPENSATION
  - DISPLAY OF SENSITIVITY IN PERCENT PER FOOT
  - MULTISTAGE ALARM OPERATION
  - ABILITY TO DISPLAY AND PRINT DETAILED SENSOR INFORMATION IN PLAIN ENGLISH LANGUAGE
- PHOTOELECTRIC SMOKE SENSOR 4098-9714: SEVEN LEVELS OF SENSITIVITY FROM 0.2% TO 3.7%
- IONIZATION SMOKE SENSOR 4098-9717: FOUR LEVELS OF SENSITIVITY FROM 0.5% TO 1.7%
- HEAT SENSOR 4098-9733:
  - RATE-OF-RISE TEMPERATURE DETECTION IS SELECTABLE AT THE CONTROL PANEL FOR EITHER 15°F OR 20°F PER MINUTE
  - FIXED TEMPERATURE SENSING IS INDEPENDENT OF RATE-OF-RISE AND PROGRAMMABLE TO OPERATE AT 135°F OR 150°F
  - TRUEALARM HEAT SENSORS CAN BE PROGRAMMED AS A UTILITY DEVICE TO MONITOR FOR TEMPERATURE EXTREMES IN THE RANGE FROM 32° F TO 120° F.
- UL STANDARD SPACING:
  - 80 FT SPACING FOR 135° F
  - 40 FT SPACING FOR 150° F
- BASE MOUNTED ADDRESS SELECTION:
  - ACCESSIBLE FROM FRONT (DIP SWITCH UNDER SENSOR)
  - ADDRESS REMAINS WITH ITS PROGRAMMED LOCATION
- FOR USE WITH SIMPLEX 4010, 4100, 4020, AND 4120 SERIES CONTROL PANELS.
- MAXIMUM QUANTITY OF DEVICES:
  - 127 FOR 4020, 4100, 4120
  - 250 FOR 4010, 4100
- MOUNTING: CEILING OR WALL
- COLOR: FROST WHITE
- BASE DIMENSIONS: 15/16" X 4-7/8"

**SPECIFICATIONS:**

- UL LISTED TEMPERATURE RANGE: 32°F TO 100°F
- OPERATING TEMPERATURE RANGE: 32°F TO 120°F
- HUMIDITY RANGE: 10% TO 95% RH
- PHOTOELECTRIC SENSOR AIR VELOCITY RANGE: 0-2000 FT/MIN
- IONIZATION SENSOR AIR VELOCITY RANGE: 0-300 FT/MIN
- WIRING CONNECTIONS: SCREW TERMINALS FOR IN/OUT WIRING, #18 TO #14 AWG
- COMMUNICATIONS MAPNET/IDNt SLC: 1 ADDRESS PER BASE VOLTAGE (MAPNET/IDNt SLC): 24-40VDC CURRENT: 400µA TYPICAL

**DESCRIPTION:**  
TRUEALARM SENSOR BASES CONTAIN INTEGRAL ADDRESSABLE ELECTRONICS THAT CONSTANTLY MONITOR THE STATUS OF THE DETACHABLE PHOTOELECTRIC, IONIZATION, OR HEAT SENSORS. EACH SENSOR'S OUTPUT IS DIGITIZED AND TRANSMITTED TO THE SYSTEM FIRE ALARM CONTROL PANEL EVERY FOUR SECONDS. SINCE TRUEALARM SENSORS USE THE SAME BASE, DIFFERENT SENSOR TYPES CAN BE EASILY INTERCHANGED TO MEET SPECIFIC LOCATION REQUIREMENTS. THIS FEATURE ALLOWS INTENTIONAL SENSOR SUBSTITUTION DURING BUILDING CONSTRUCTION. WHEN CONDITIONS ARE TEMPORARILY DUSTY, INSTEAD OF COVERING THE SMOKE SENSORS, HEAT SENSORS MAY BE INSTALLED WITHOUT REPROGRAMMING THE CONTROL PANEL, ALTHOUGH THE CONTROL PANEL WILL INDICATE AN INCORRECT SENSOR TYPE. THE HEAT SENSOR WILL OPERATE AS A DEFAULT SENSITIVITY PROVIDING HEAT DETECTION FOR BUILDING PROTECTION AT THAT LOCATION.

**WIRING:**

- ALL WIRING TO COMPLY WITH LOCAL CODE.
- CONDUCTORS MUST TEST FREE OF ALL GROUNDS.
- MAINTAIN CORRECT POLARITY.
- MAPNET/IDNt SLC WIRING TO BE #18 AWG TWISTED SHIELDED PAIR
- IF SHIELD IS PRESENT, CONNECT TO THE OUTGOING IDNt SLC SHIELD TO PROVIDE A CONTINUOUS SHIELD OVER THE LENGTH OF THE IDNt SLC CHANNEL. METHOD OF SPICE DETERMINED BY AHJ.
- REFER TO INSTALLATION INSTRUCTIONS (574-707)
- REFER TO APPLICATION MANUAL (574-709)

**FEATURES:**

- 4" X 1 1/2" DEEP OCTAGONAL 4" SQUARE X 1 1/2" DEEP WHICH REQUIRES A 4098-9832 ADAPTER PLATE (6-3/8" X 1/4") BOX SUPPLIED BY CONTRACTOR
- MAPNET/IDNt ADDRESS DIP SWITCHES SEE BASE INSTALLATION INSTRUCTIONS 574-709 FOR SETTINGS

4098-9714 PHOTOELECTRIC SMOKE SENSOR  
 4098-9717 IONIZATION SMOKE SENSOR  
 4098-9733 HEAT SENSOR

FLUSH MOUNTING (BOX TO BE FLUSH OR RECESSED 1/4" MAXIMUM)

ISSUE NO.	DATE	CD	CHK	DESCRIPTION

DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ISSUE DATE: \_\_\_\_\_  
 JOB #: \_\_\_\_\_  
 PROJECT #: 147-984795401  
 SIMPLEXGRINNELL © 2015  
 SYSTEM:  
 FIRE ALARM SYSTEM  
 SHEET:  
 WIRING TYPICALS  
 FA-701

### TrueAlert™ NON-ADDRESSABLE MULTI-CANDELA AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (ELECTRONIC HORN W/STROBE)

**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 4100U SERIES FIRE ALARM CONTROL PANEL NAC'S

**SPECIFICATIONS:**

- HOUSING DIMENSIONS (INCLUDING LENS): 5 1/8" H X 5" W X 2 3/4" 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.

**IMPORTANT! WALL MOUNT INSTALLATION HEIGHT REFERENCE**

WHEN SURFACE MOUNTING USE RED SKIRT NO. 4905-9937 (RED) WHITE SKIRT NO. 4905-9940 (WHITE)

4" SQUARE X 1 1/2" DEEP BOX

ALTERNATE BACK BOXES  
 1. 2 GANG 1 1/2" DEEP BOX  
 2. SINGLE GANG 1 1/2" DEEP BOX

**SEMI-FLUSH MOUNTING**

**STROBE**

- RATED VOLTAGE RANGE: UL: REGULATED 24VDC PER UL 1971 ULC: 20VDC TO 30VDC PER ULC 5526-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	16 VDC	18 VDC	24 VDC
4906-9101	RED	WHITE	15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA
			75cd	221 mA	196 mA	147 mA
			110cd	285 mA	253 mA	190 mA
			15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA
4906-9129	WHITE	RED	15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA
			75cd	221 mA	196 mA	147 mA
			110cd	285 mA	253 mA	190 mA
			15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA

**STROBE INTENSITY VIEWING SLOT**

**IMPORTANT! WALL MOUNT INSTALLATION HEIGHT REFERENCE**

WHEN SURFACE MOUNTING USE RED SKIRT NO. 4905-9937 OR WHITE SKIRT NO. 4905-9940

4" SQUARE X 1-1/2" DEEP BOX

ALTERNATE BACK BOXES  
 1. 2 GANG 1-1/2" DEEP BOX  
 2. SINGLE GANG 1-1/2" DEEP BOX

**SEMI-FLUSH MOUNTING**

**STROBE INTENSITY VIEWING SLOT**

TO ADDITIONAL NOTIFICATION APPLIANCE DEVICE OR RETURN TO FACP FOR STYLE Z APPLICATION IF LAST DEVICE ON CIRCUIT IN A STYLE Y APPLICATION PLACE A 10K 1/2W END-OF-LINE RESISTOR

TO ADDITIONAL NOTIFICATION APPLIANCE DEVICE OR RETURN TO FACP FOR STYLE Z APPLICATION IF LAST DEVICE ON CIRCUIT IN A STYLE Y APPLICATION PLACE A 10K 1/2W END-OF-LINE RESISTOR

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

**PRODUCT INFORMATION**

**FEATURES:**

- UL LISTED TO STANDARD 1971
- ADA COMPATIBLE
- 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: 5-1/8" H X 5" W X 2-3/4" D (130mm X 127mm X 70mm)
- 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:**

- NOTIFICATION APPLIANCES ARE RATED PER INDIVIDUAL NAMEPLATE LABEL.
- MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS. DO NOT LOOP WIRES UNDER TERMINALS.
- ALL NAC WIRING CONNECTIONS ARE SUPERVISED AND POWER-LIMITED.
- 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 5526-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	16 VDC	18 VDC	24 VDC
4906-9101	RED	WHITE	15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA
			75cd	221 mA	196 mA	147 mA
			110cd	285 mA	253 mA	190 mA
			15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA
4906-9103	WHITE	RED	15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA
			75cd	221 mA	196 mA	147 mA
			110cd	285 mA	253 mA	190 mA
			15cd	75 mA	87 mA	50 mA
			30cd	116 mA	103 mA	77 mA

**IMPORTANT! WALL MOUNT INSTALLATION HEIGHT REFERENCE**

WHEN SURFACE MOUNTING USE RED SKIRT NO. 4905-9937 OR WHITE SKIRT NO. 4905-9940

4" SQUARE X 1-1/2" DEEP BOX

ALTERNATE BACK BOXES  
 1. 2 GANG 1-1/2" DEEP BOX  
 2. SINGLE GANG 1-1/2" DEEP BOX

**SEMI-FLUSH MOUNTING**

**STROBE INTENSITY VIEWING SLOT**

TO ADDITIONAL NOTIFICATION APPLIANCE DEVICE OR RETURN TO FACP FOR STYLE Z APPLICATION IF LAST DEVICE ON CIRCUIT IN A STYLE Y APPLICATION PLACE A 10K 1/2W END-OF-LINE RESISTOR

TO ADDITIONAL NOTIFICATION APPLIANCE DEVICE OR RETURN TO FACP FOR STYLE Z APPLICATION IF LAST DEVICE ON CIRCUIT IN A STYLE Y APPLICATION PLACE A 10K 1/2W END-OF-LINE RESISTOR