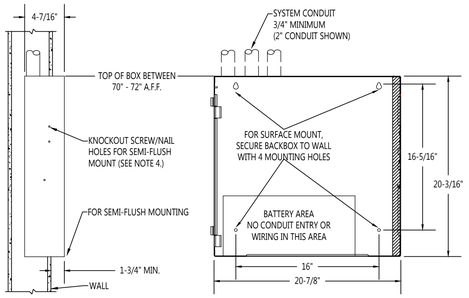
FACP BACKBOX INSTALLATION

SIMPLEX 4007es SERIES



MOUNTING NOTES

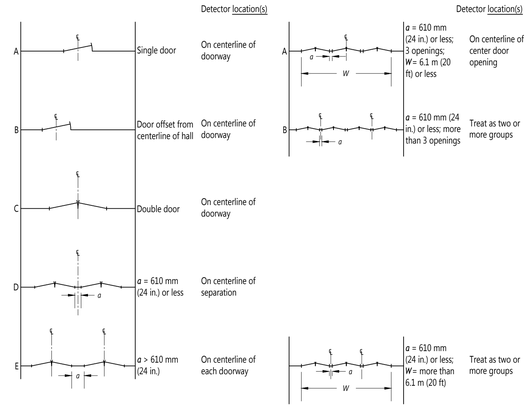
1. REMOVE ELECTRONICS AND STORE IT IN A SAFE DRY AREA.
2. NO KNOCKOUTS PROVIDED. CUT CONDUIT/SERVICE ENTRANCE OPENINGS. REFER TO ILLUSTRATION FOR PROPER LOCATIONS. CONDUIT PROTRUSION INTO BOX 1/2" MAX.
3. MOUNT BOX TO WALL; BOX MUST BE LEVEL AND PLUMB. FOR SURFACE MOUNT USE TEAR DROP AND CLEARANCE HOLES ON BACK SURFACE.
4. FOR SEMI-FLUSH MOUNT: USE KNOCKOUTS ON SIDE WALL AND SCREW OR NAIL BOX TO WALL STUDS.
5. IF PRESENT, USE WIRE MANAGEMENT BRACKETS ON BOX SIDES TO SECURE WIRE RUNS.
6. DO NOT LOCATE POWER-LIMITED WIRING IN THE SHADED AREAS OF THE BACKBOX, THIS AREA IS RESERVED FOR NON-POWER LIMITED CIRCUITRY SUCH AS AC POWER, BATTERIES AND CITY CONNECTION.
7. USE SEPARATE CONDUIT ENTRANCES FOR POWER LIMITED AND NON-POWER LIMITED WIRING.

FOR ADDITIONAL INFORMATION, DOWNLOAD DATA SHEET 54007-0002 FROM HTTP://WWW.SIMPLEX-FIRE.COM

DETECTOR LOCATION REQUIREMENTS FOR WALL SECTIONS AND DOORS

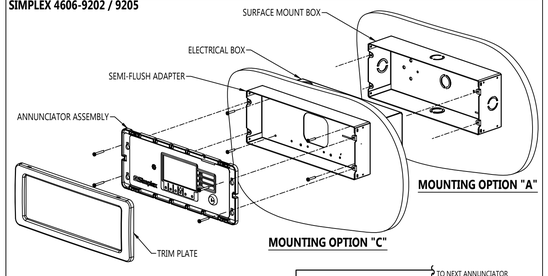
NFPA 72

DEPTH OF WALL SECTION ABOVE DOOR	DOOR FRAME MOUNTED	CEILING MOUNTED
d	SMOKE DETECTOR LISTED FOR FRAME MOUNTING OR AS PART OF CLOSER ASSEMBLY	SMOKE DETECTOR CEILING MOUNTED
0 - 610 mm (0 - 24 in.) ON BOTH SIDES OF DOORWAY	A: *d*=610mm (24 in.); DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	B: 100-300 mm; *d*; or; max. 1.52 m (5 ft) *d*; min. but not less than 305 mm (12 in.); ONE DETECTOR MOUNTED ON EITHER SIDE
OVER 610 mm (24 in.) ON ONE SIDE ONLY	C: $d_1 \leq$ 610mm (24 in); $d_2 >$ 610mm (24 in.); DETECTOR OR DETECTOR CLOSER MOUNTED ON HIGHER SIDE	D: 100-300 mm; $d_1 \leq$ 610mm (24 in.); or; $d_2 >$ 610 mm (24 in.); 1.52 m (5 ft) max. min. = d_1; ONE DETECTOR MOUNTED ON HIGHER SIDE
OVER 610 mm (24 in.) ON BOTH SIDES	E: *d* > 610mm (24 in.); DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	F: or; *d*; or; 100-300 mm; 1.52 m (5 ft) max. min. = *d*; 1.52 m (5 ft) max. min. = *d*; TWO DETECTORS REQUIRED
OVER 1524 mm (60 in.)	G: MIGHT REQUIRE ADDITIONAL DETECTORS	



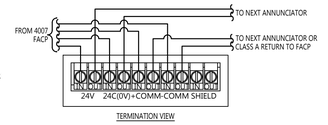
COLOR TOUCH SCREEN ANNUNCIATOR

SIMPLEX 4606-9202 / 9205



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ONE INDICATOR MAY BE INSTALLED PER DETECTOR.



MOUNTING OPTIONS

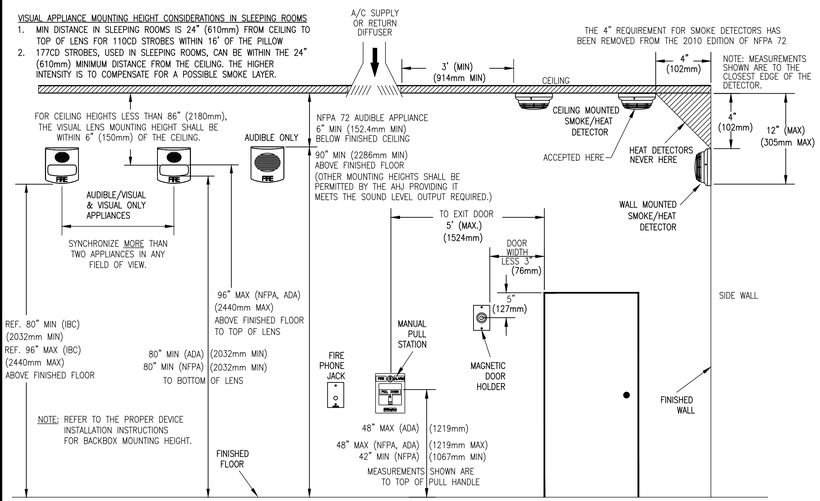
OPTION[1]	BACK BOX SPECIFICATION	NOTES
A	SURFACE MOUNT - SIMPLEX 2975-9461 SURFACE MOUNT BOX, 2-1/2" DEEP	ORDERED SEPARATELY
B	FLUSH MOUNT - 5 GANG BOX, 2-1/2" DEEP	RACO 944 OR EQUAL - BY OTHERS
C	SEMI-FLUSH MOUNT - EXISTING 2-GANG, 4-GANG, 6-GANG OR 4" SQUARE FLUSH MOUNTED ELECTRICAL BOX	BOXES SUPPLIED SEPARATELY. USE SIMPLEX 2795-9463 SEMI-FLUSH ADAPTER

1. FOR ADDITIONAL INFORMATION, DOWNLOAD DATA SHEET 4606-0003 FROM HTTP://WWW.SIMPLEX-FIRE.COM

DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)

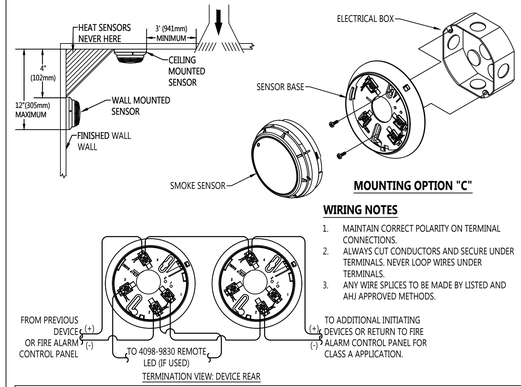
VISUAL APPLIANCE MOUNTING HEIGHT CONSIDERATIONS IN SLEEPING ROOMS

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.



TrueSense SMOKE SENSOR

SIMPLEX 4098-9601 SENSOR WITH 4098-9788 BASE



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

TO ADDITIONAL INITIATING DEVICES OR RETURN TO FIRE ALARM CONTROL PANEL FOR CLASS A APPLICATION.

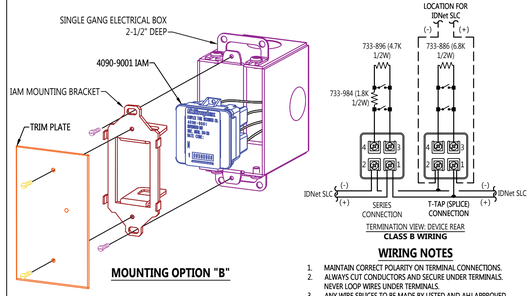
MOUNTING OPTIONS

OPTION[1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/8" (54mm) DEEP	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS
C	4" (102mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM	BY OTHERS
D	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SIMPLEX 4098-9832 ADAPTER KIT	BOX BY OTHER, 4098-9832 ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-0034 FROM HTTP://WWW.SIMPLEX-FIRE.COM

ADDRESSABLE INPUT MODULE

SIMPLEX 4090-9001 (IAM)



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

OPTION[1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SINGLE GANG COVER PLATE	BY OTHERS
B	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SIMPLEX 4090-9810 IAM MOUNTING BRACKET AND SIMPLEX 4090-9806 TRIM PLATE FOR SEMI-FLUSH MOUNTED BOX	BOX BY OTHERS, PLATES ORDERED SEPARATELY
C	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SIMPLEX 4090-9810 IAM MOUNTING BRACKET AND SIMPLEX 4090-9807 TRIM PLATE FOR SURFACE MOUNTED BOX	BOX BY OTHERS, PLATES ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4090-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

INITIATING DEVICE DIP SWITCH SETTINGS

SIMPLEX IDNet

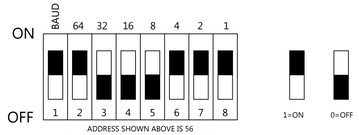
DIP SWITCHES 5 THRU 8

DIP SWITCHES 1 THRU 4															
	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

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 PANEL'S 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 DOESN'T OFFER SOUNDER FUNCTIONALITY. THEY USE AN 8-WAY DIP SWITCH ONLY.

COMMUNICATIONS DIP SWITCH SETTINGS

SIMPLEX RUI (REMOTE UNIT INTERFACE)



DIP SWITCHES 1 THRU 4

DIP SWITCHES 5 THRU 8							
	0	16	32	48	64	80	96	112
	1	17	33	49	65	81	97	113
	2	18	34	50	66	82	98	114
	3	19	35	51	67	83	99	115
	4	20	36	52	68	84	100	116
	5	21	37	53	69	85	101	117
	6	22	38	54	70	86	102	118
	7	23	39	55	71	87	103	119
	8	24	40	56	72	88	104	
	9	25	41	57	73	89	105	
	10	26	42	58	74	90	106	
	11	27	43	59	75	91	107	
	12	28	44	60	76	92	108	
	13	29	45	61	77	93	109	
	14	30	46	62	78	94	110	
	15	31	47	63	79	95	111	

END OF LINE RESISTOR CODES

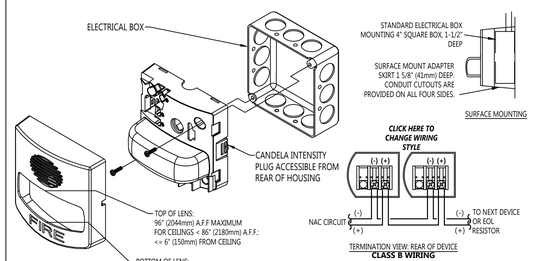
NOTE: REFER TO PANEL/MODULE AND DEVICE INSTALLATION INSTRUCTIONS FOR PROPER TERMINATIONS.

MODEL	REFERENCE NUMBER	OHMS	BAND NUMBER 1	2	3	4	5	WATTS	CIRCUIT TYPE	FIRE ALARM PANEL/MODULE
4081-9001	733-892	2.2K	RED	RED	RED	GLD	N/A	1/2	ANNUNCIATOR (4300)	4004, 4010 (TROUBLE)
4081-9002	733-893	3.3K	ORG	ORG	RED	GLD	N/A	1	N.O. INITIATING PULL, SMOKE, HEAT, WATERFLOW, TAMPER, ETC.	4004*, 4004R, 4005*, 4006, 4100, 4120, 4100U, 2AM;
									24 PT. I/O SWITCH SUPV.	4605-7401, 4100 SERIES
4081-9003	733-896	4.7K	YEL	VLT	RED	GLD	N/A	1/2	CURRENT LIMITED N.O. INIT.	4090-9001 IDNET 3AM (EOLR)
									NOTIFICATION (DACT)	2080-9024
4081-9004	733-886	6.8K	BLU	GRY	RED	GLD	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	BRN	GRY	RED	GLD	N/A	1/2	CURRENT LIMITED N.O. INITIATING (IN LINE)	4090-9001 IDNET IAM
4081-9006	733-890	560 Ω	GRN	BLU	BRN	GLD	N/A	1	N.C. INITIATING (EOLR)	4005*, 4090-9001 IDNET IAM 4100, 4100U
4081-9007	733-891	1.2K	BRN	RED	RED	GLD	N/A	1	N.C. INITIATING (EOLR)	4005
4081-9008	733-894	10K	BRN	BLK	ORG	GLD	N/A	1/2	NOTIFICATION	4004, 4005, 4006, 4008, 4009, 4010, 4100, 4100U
4081-9009	733-912	20 Ω	RED	BLK	BLK	GLD	N/A	1	TO MR-101 RELAY COIL	4005 8 POINT I/O
4081-9010	733-973	1K	BRN	BLK	RED	GLD	N/A	1	N.C. INIT. (ACROSS CONTACTS)	4005*,4090-9001 IDNET IAM
									24 PT. I/O (ACROSS CONTACTS)	4605-7401, 4100 SERIES
									CURRENT LIMITED N.O. INIT. (IN SERIES WITH CONTACT)	4090-9001 IDNET IAM
4081-9011	733-974	100 Ω	BRN	BLK	BRN	GLD	N/A	1/2	ANNUNCIATOR (N2)	4006, 4008, 4010
4081-9012	733-985	22K	RED	RED	ORG	GLD	N/A	1/2	SPEAKER CIRCUIT	4003
4081-9013	734-086	4.99K	YEL	WHT	WHT	BRN	BRN	1/2		
4081-9014	734-092	2.4K	RED	YEL	RED	GLD	N/A	1/2	N.C. INITIATING (SECURITY MONITORING EOLR)	4090-9001 IDNET IAM
4081-9015	734-093	1.5K	BRN	GRN	RED	GLD	N/A	1/2	CURRENT LIMITED N.O. INIT. (SECURITY MONITORING EOLR)	4090-9001 IDNET IAM
4081-9016	734-149	150K	BRN	GRN	YEL	GLD	N/A	1/2		
4081-9017	734-171	3.9K	ORG	WHT	RED	GLD	N/A	1		
4081-9018	734-168	10K	BRN	BLK	ORG	GLD	N/A	1	70VRMS CONSTANT SUPV. NACS	4100-1260
	378-090	8.2K	GRAY	RED	RED	GLD	N/A	1/2	SECURITY MONITORING (EOLR)	4100, 4100U
	378-046	5.6K	GRN	BLU	RED	GLD	N/A	1/2	N.O. SECURITY MON. (SERIES)	4100, 4100U
	378-069	12K	BRN	RED	ORG	GLD	N/A	1/2	N.C. SECURITY MON. (SHUNT)	4100, 4100U

* USE WITH RETROFIT OR HIGH CURRENT MODULE

TrueAlert CONVENTIONAL APPLIANCES

SIMPLEX 4906 SERIES WALL MOUNTED HIGH-CANDELA AUDIBLE / VISUAL



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

OPTION[1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 1-1/2" (64mm) DEEP	BY OTHERS, WHEN SURFACE MOUNTING USE 4905-9937 (RED) OR 4906-9940 (WHITE) SKIRT
B	4" (102mm) SQUARE BOX, 1-1/2" (38mm) DEEP, MINIMUM	
C	2 GANG BOX, 1-1/2" (38mm) DEEP	
D	SIMPLEX 2975-9145, 7-7/8"H X 5-1/8"W x 2-3/4"D (127mm x 98mm x 56mm) REQUIRES 4905-9931 PLATE	ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4906-0002 FROM HTTP://WWW.SIMPLEX-FIRE.COM

tyco SimplexGrinnell
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PHONE: 207-842-6440
FAX: 207-842-6439

NORTHFIELD GREEN BUILDINGS 147/149/151

NORTHFIELD GREEN
149 ALLEN AVENUE
PORTLAND, ME 04103-3734

ISSUE LOG					
MARK	DATE	CAD	CHK	DESCRIPTION	

Revisions shown with △ symbol

DRAWN BY:	PRANESH/TT
CHECKED BY:	TT
ISSUE DATE:	2/2/18
JOB #:	147428511
PROJECT #:	147.604471601

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SYSTEM: FIRE ALARM SYSTEM

SHEET: WIRING TYPICALS

FA-701

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24" x 36" - Arch D Size