speco technologies®
simply unique.

MA Series 5.25" or 6.5" 70/25V Commercial ABS Plastic Back Can Speakers

SP5MAT 5.25" speaker
SP6MAT 6.5" speaker

sold individually

Features

Speco Technologies' Multi-Application Series was designed to make the contractor's work as easy and time-efficient as possible.

Our all-in-one unit comes pre-assembled with back can and mounted transformer. It features a quick-flip 70 or 25 Volt selector switch and an easy-select transformer wattage dial. The choice of 8 or 9 individual wattage tap settings covers a complete range of uses. This flame-retardant ABS unit also comes with insulated wires, has an attached metal seismic safety loop and built-in easy mount tabs for securing the unit. The MA Series is the ideal, all-purpose value speaker covering a wide range of commercial applications. The furnished 8 Ohm tap selector also means the speakers can be kept on-hand for unexpected residential installation needs.

Specifications

	SP5MAT	SP6MAT
Frequency Response Range	57Hz – 20kHz	34Hz – 20kHz
Low Frequency Driver	5.25" Polypropylene woofer with rubber surround	6.5" Polypropylene woofer with rubber surround
Low Frequency Magnet	10 oz. ferrite	11.6 oz. ferrite
High Frequency Driver	1" Coaxially mounted mylar dome tweeter	1" Coaxially mounted mylar dome tweeter
Sensitivity	87dB (1W/1M)	88dB (1W/1M)
Impedance	8 Ohms, 70/25V	8 Ohms, 70/25V
RMS Power	30W	40W
Max. Power	60W	80W
Transformer Setting	30W, 15W, 7.5W, 5W, 2.5W, 1W, 0.5W, 0.25W & 8 Ohms	40W, 30W, 15W, 7.5W, 5W, 2.5W, 1W, 0.5W, 0.25W & 8 Ohms
Baffle Material	Fire-resistant ABS	Fire-resistant ABS
Back Can Material	Fire-resistant ABS	Fire-resistant ABS
Grille Material	Metal	Metal
Wire Connection Type	Push Terminal	Push Terminal
Weight	4.5 lbs.	5.5 lbs.
Cut-Out Dimensions	8.38"	9.88"
Minimum Mounting Depth	5.6"	7"
Dimensions	9.43" (Dia.) x 6.12" (D)	11.02" (Dia.) x 7.58" (D)
Optional Mounting Bracket	BRC6F (sold in pairs)	BRC8F (sold in pairs)

Speco Technologies is constantly developing and improving products.
We reserve the right to modify product design and specifications without notice and without incurring any obligation.

Rev. 3/22/13

For more information contact Speco Technologies
200 New Highway, Amityville, NY 11701 • Toll Free: 1-800-645-5516 • Fax: 631-957-9142 or 631-957-3880
www.specotech.com

Architect & Engineer Specifications / SP5MAT

The loudspeaker system shall be Speco Technologies SP5MAT. System shall include a high performance 5.25” coaxial loudspeaker, ported bass reflex enclosure and press-fit grille for conventional ceiling installation.

The total frequency response for the system shall be 57 Hz – 20 kHz.

Sensitivity shall be 87dB average.

Loudspeaker shall be comprised of a 5.25” coaxial cone type driver. Cone shall be constructed of polypropylene with a rubber surround. The 1” tweeter shall be constructed of Mylar. Magnet shall be Ferrite and a minimum of 10 oz.

Transformer shall be a 70.7V / 25V type with .25, .5, 1.0, 2.5, 5.0, 7.5, 15.0, and 30.0 watt primary taps (@70.7V) with a front mounted tap selector switch to include transformer bypass setting for 8Ω direct coupled operation.

Enclosure shall be a flame-retardant ABS Plastic enclosure design.

External wiring shall be accomplished via press-terminals to provide both secure wire termination and fast installation of wires.

Seismic support eye shall be provided on side of enclosure for additional suspension point when used in drop tile ceilings.

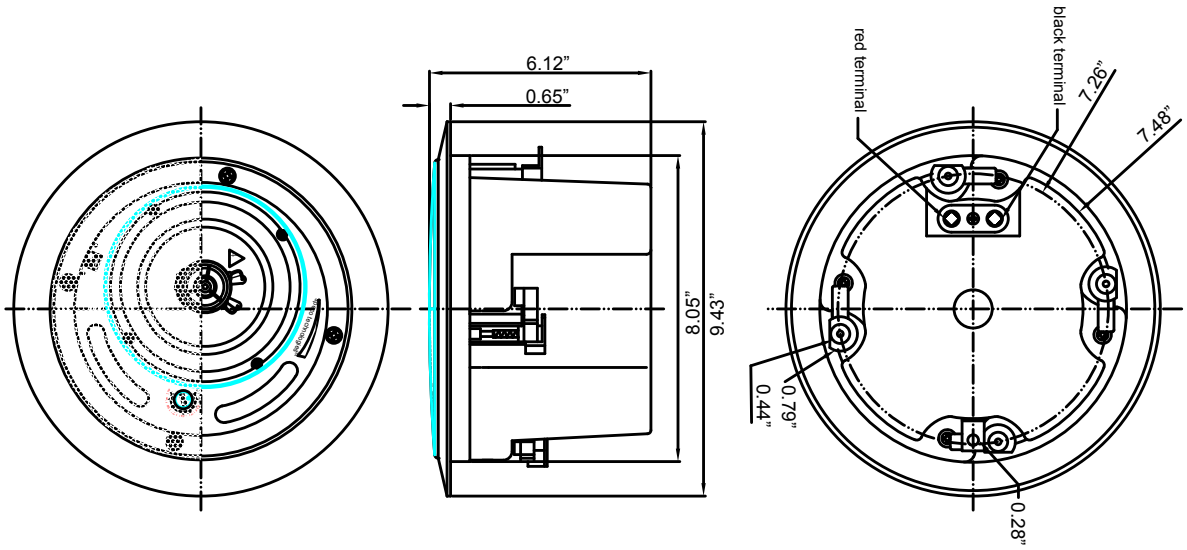
The mounting system shall be Speco Technologies BRC6F and include a support backing plate to reinforce the ceiling material and tile support rails for use on either 2’ x 4’ or 2’ x 2’ suspended ceiling tiles. This assembly can all be installed from beneath the ceiling tile.

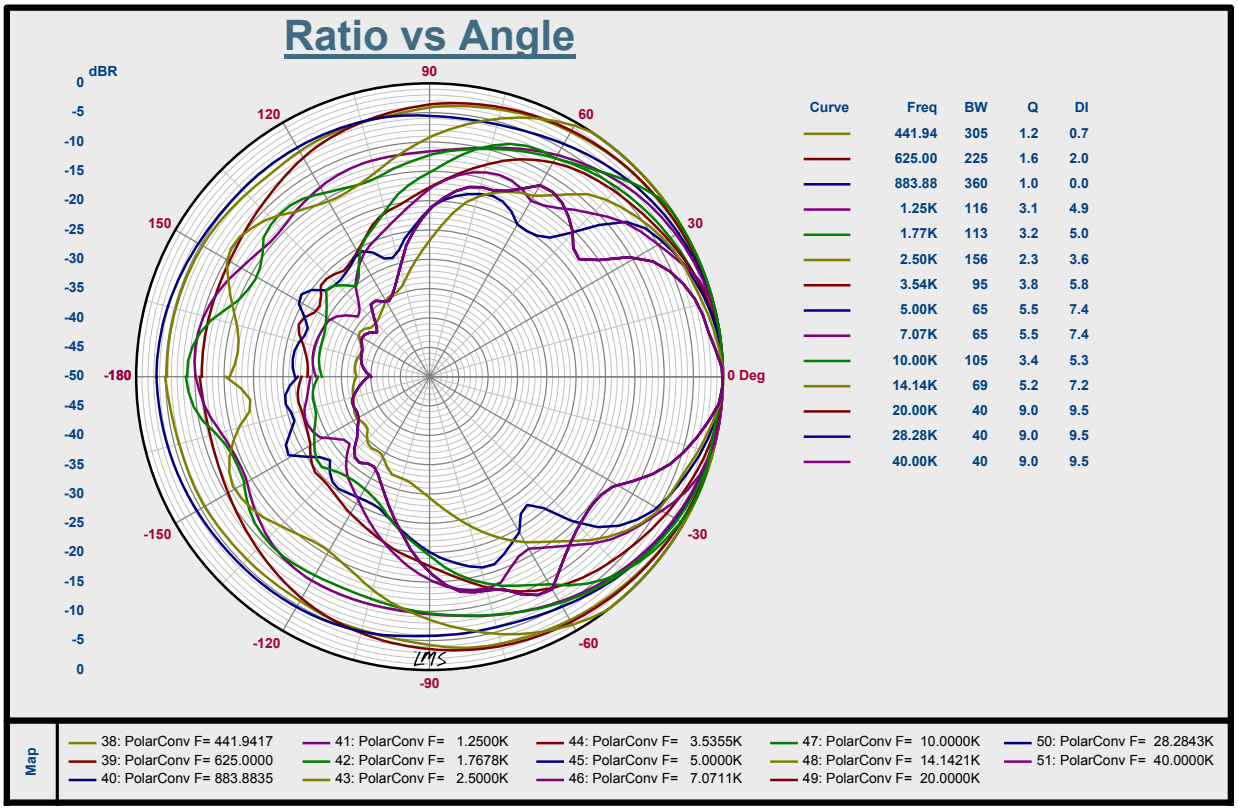
Overall front face diameter shall not exceed 9.43”; overall depth from the bottom of the ceiling shall not exceed 6.12”.

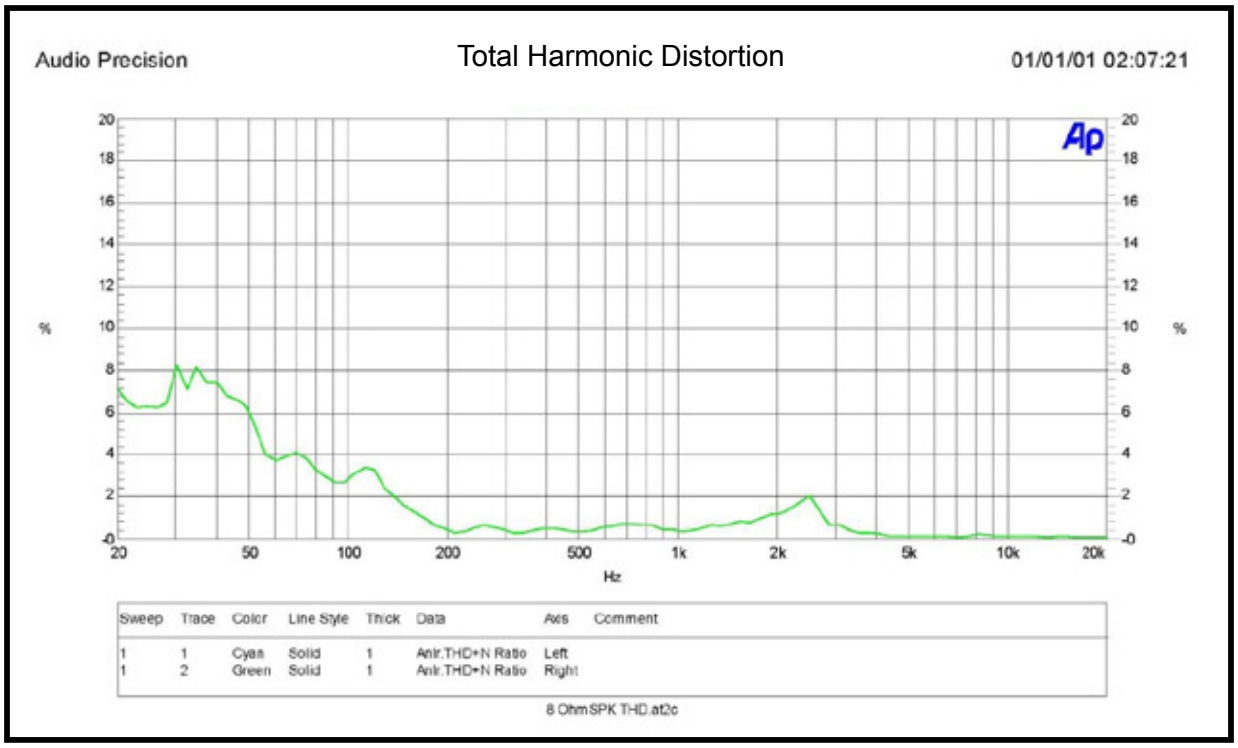
Grilles shall be press-fit, manufactured from 24-gauge perforated steel mesh and finished in white epoxy. Round grill shall be 8.05” diameter.

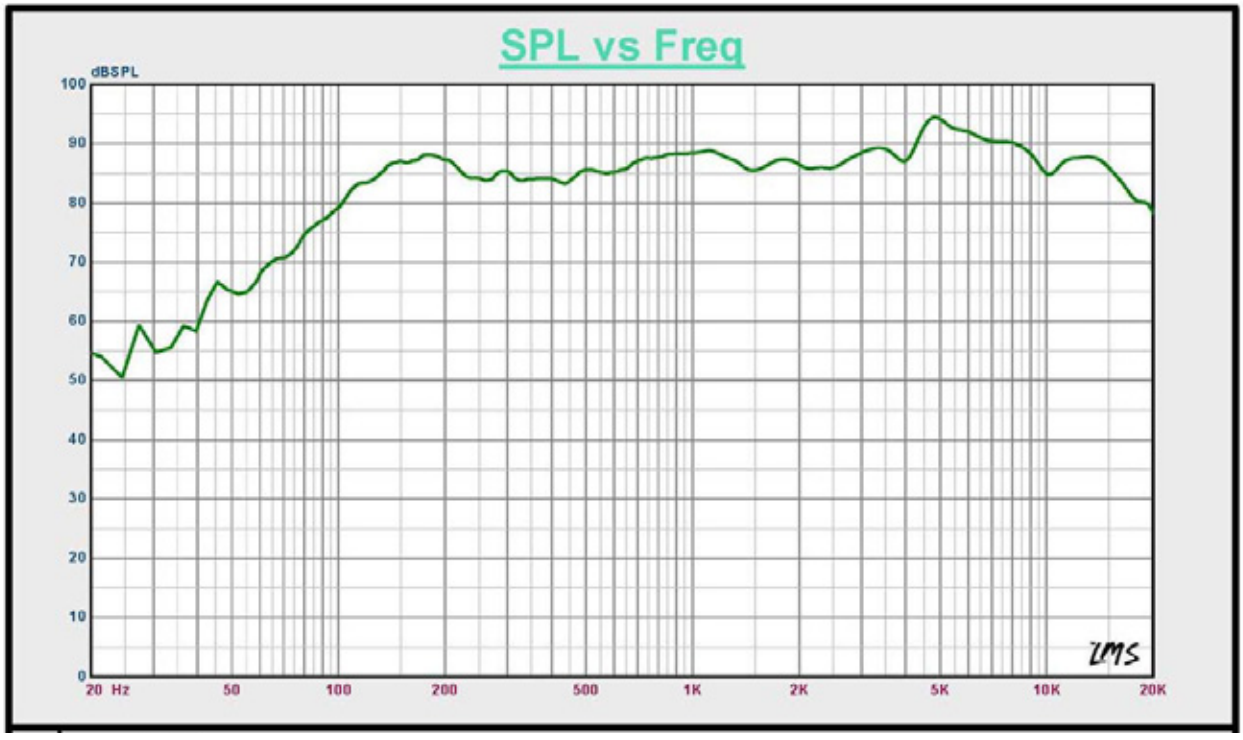
The loudspeaker shall be the Speco Technologies SP5MAT.

Product Dimensions






Audio Precision
Total Harmonic Distortion
01/01/01 02:07:21
%
Hz
Sweep Trace Color Line Style Thick Data Axis Comment
1 1 Cyan Solid 1 Anlr.THD+N Ratio Left
1 2 Green Solid 1 Anlr.THD+N Ratio Right
8 OhmSPK THD.at2c


SPL vs Freq
dBSPL
20 Hz
50
100
200
500
1K
2K
5K
10K
20K

MA Series 6.5” 70/25V Commercial ABS Plastic Back Can Speakers

Architect & Engineer Specifications / SP6MAT

The loudspeaker system shall be Speco Technologies SP6MAT. System shall include a high performance 6.5” coaxial loudspeaker, ported bass reflex enclosure and press-fit grille for conventional ceiling installation.

The total frequency response for the system shall be 34 Hz – 20 kHz.

Sensitivity shall be 88dB average.

Loudspeaker shall be comprised of a 6.5” coaxial cone type driver. Cone shall be constructed of polypropylene with a rubber surround. The 1” tweeter shall be constructed of Mylar. Magnet shall be Ferrite and a minimum of 11 oz.

Transformer shall be a 70.7V / 25V type with .25, .5, 1.0, 2.5, 5.0, 7.5, 15.0, 30.0 and 40.0 watt primary taps (@70.7V) with a front mounted tap selector switch to include transformer bypass setting for 8Ω direct coupled operation.

Enclosure shall be a flame-retardant ABS Plastic enclosure design.

External wiring shall be accomplished via press-terminals to provide both secure wire termination and fast installation of wires.

Seismic support eye shall be provided on side of enclosure for additional suspension point when used in drop tile ceilings.

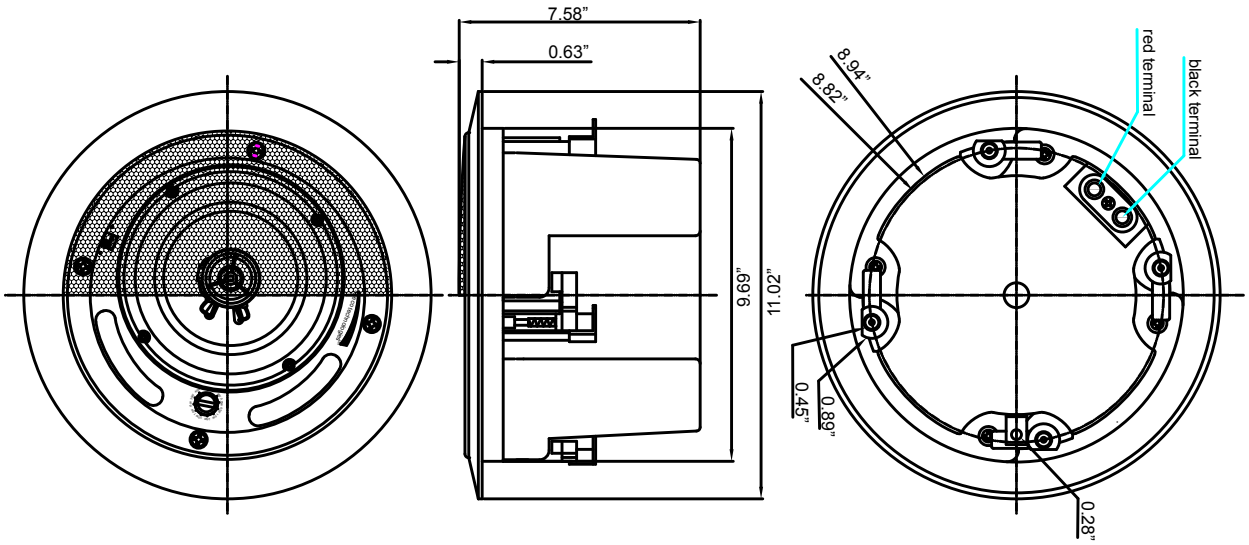
The mounting system shall be Speco Technologies BRC8F and include a support backing plate to reinforce the ceiling material and tile support rails for use on either 2’ x 4’ or 2’ x 2’ suspended ceiling tiles. This assembly can all be installed from beneath the ceiling tile.

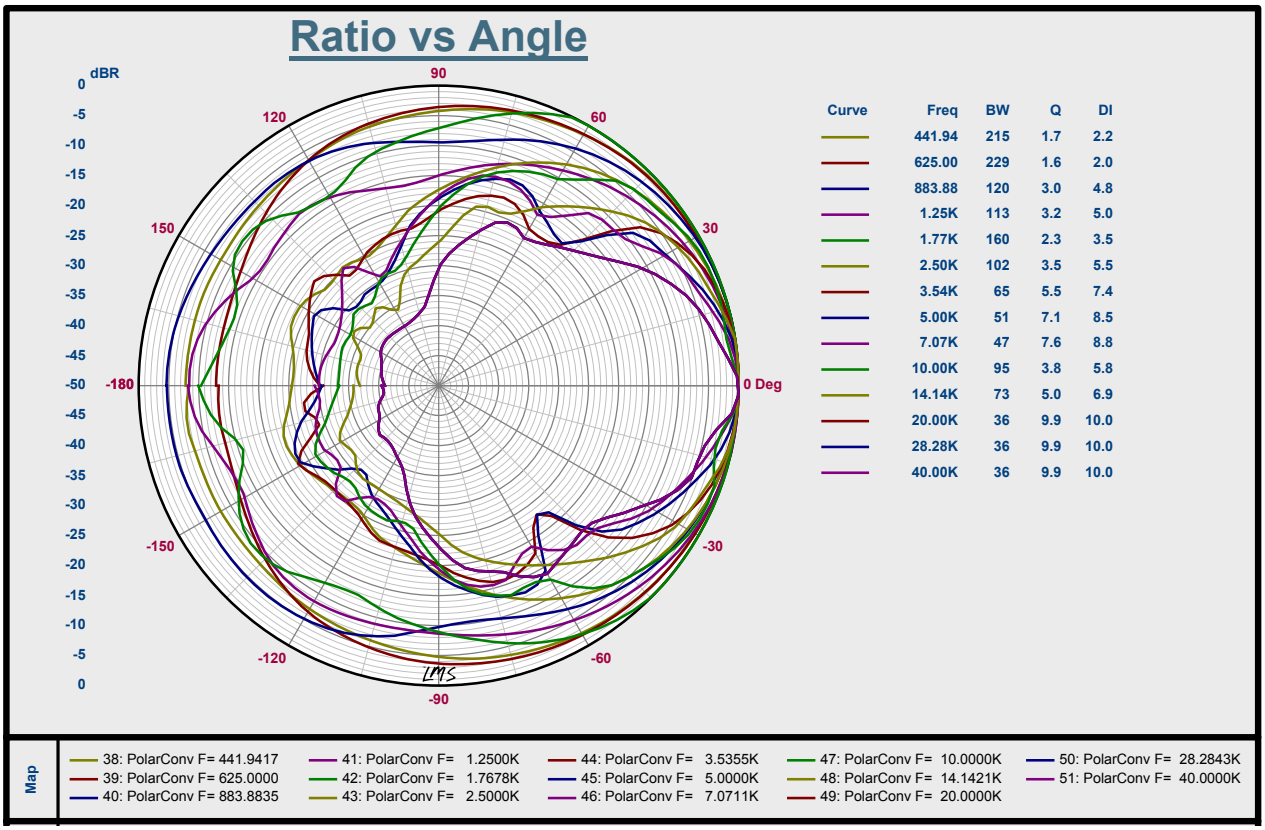
Overall front face diameter shall not exceed 11”; overall depth from the bottom of the ceiling shall not exceed 7.58”.

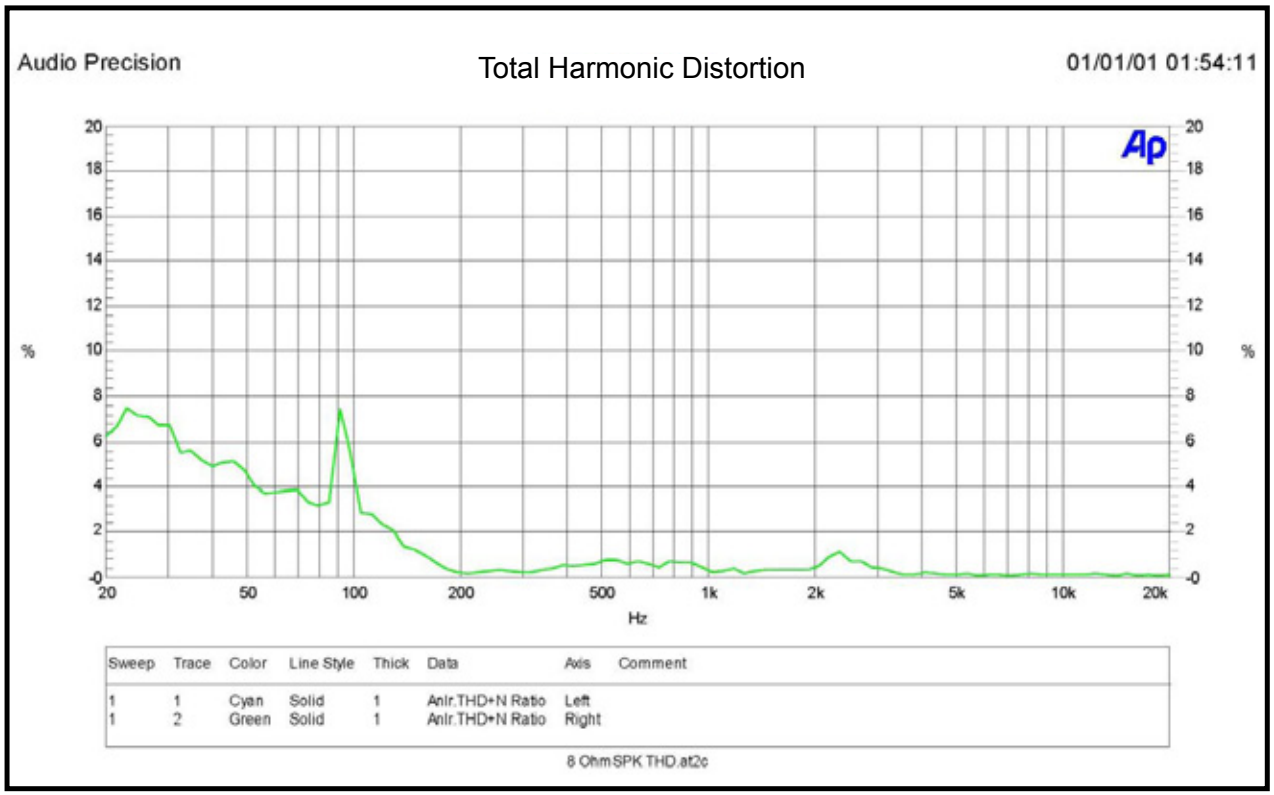
Grilles shall be press-fit, manufactured from 24-gauge perforated steel mesh and finished in white epoxy. Round grill shall be 9.69” diameter.

The loudspeaker shall be the Speco Technologies SP6MAT.

Product Dimensions






Audio Precision
Total Harmonic Distortion
01/01/01 01:54:11
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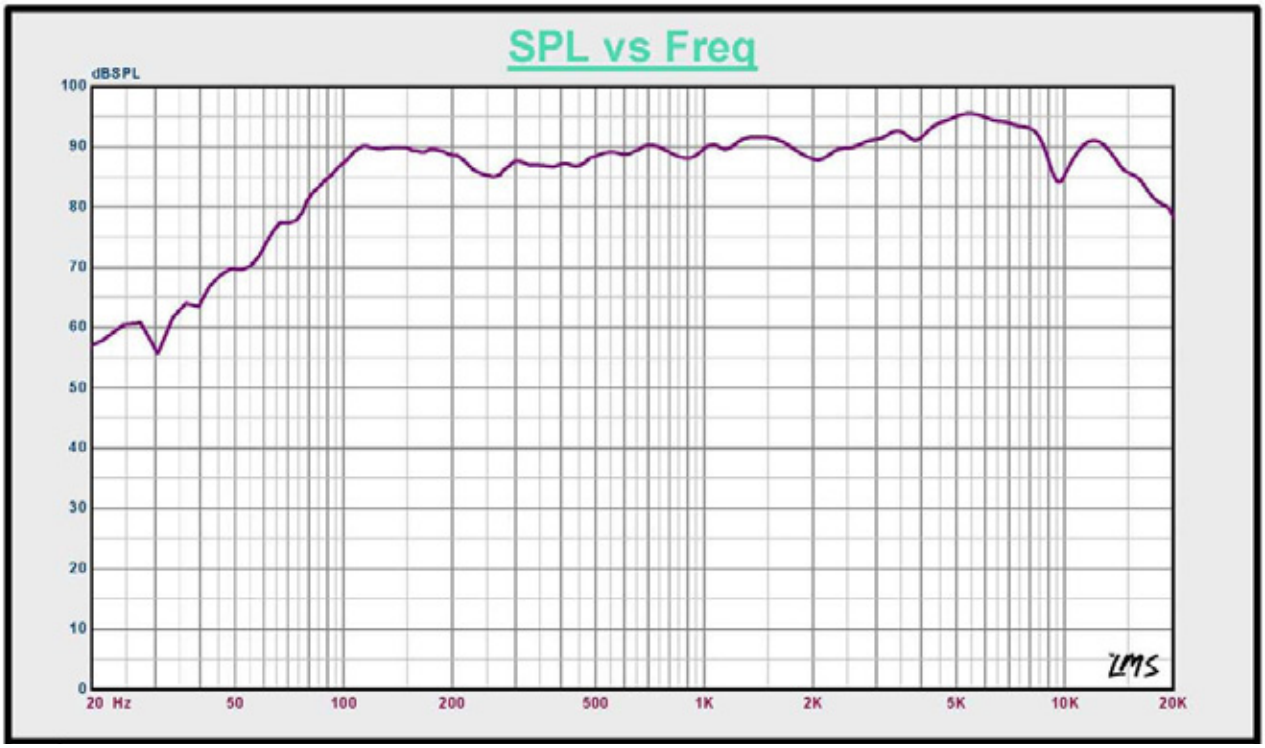
10k
20k
Hz
Sweep Trace Color Line Style Thick Data Axis Comment
1 1 Cyan Solid 1 Anlr.THD+N Ratio Left
1 2 Green Solid 1 Anlr.THD+N Ratio Right
8 Ohm SPK THD.at2c


SPL vs Freq
dBSPL
100
90
80
70
60
50
40
30
20
10
0
20 Hz
50
100
200
500
1K
2K
5K
10K
20K
LMS

DW-100 Dual Technology Wall Switch Sensor

High sensitivity and dense coverage for exceptional performance

Selectable operation, walk-through, test and presentation modes for increased energy savings and convenience

Defaults to Manual-ON operation for maximum energy savings

Color-matched lens and low profile for appealing design

Part of a comprehensive line of PIR, Ultrasonic and Dual Technology wall switch sensors

PROJECT

LOCATION/TYPE

Product Overview

Description

The DW-100 dual technology wall switch sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies, and can turn lights OFF and ON based on occupancy. It is characterized by high sensitivity to small and large movements, appealing aesthetics, and a variety of features.

Operation

The DW-100 fits in a single gang junction box. Once the lights are ON, detection by either technology holds lights ON until occupancy is no longer detected and the time delay elapses. DIP switch settings allow for a variety of control options including Auto-ON operation, walk-through and test mode. By default, Auto-ON turns lighting on when both PIR and ultrasonic technologies detect occupancy. Additional DIP switch settings allow the user to choose which sensing technologies turn-ON and hold-ON the lighting.

Manual-on Control

Factory default operation is for Manual-ON, so that users turn lights on only when needed. This control strategy is proven to save more energy than Auto-ON, and will be required where the ASHRAE 90.1-2010 energy code is adopted. If desired, the DW-100 may be reconfigured to turn lights on automatically.

Applications

WattStopper's dual technology has the flexibility to work in a variety of applications where one technology alone may not be sufficient. Common applications include small and executive offices, small and medium conference rooms and lunch/break rooms. In addition, dual technology sensors are the perfect choice for ADA-compliant buildings due to lower mounting height requirements.

Features

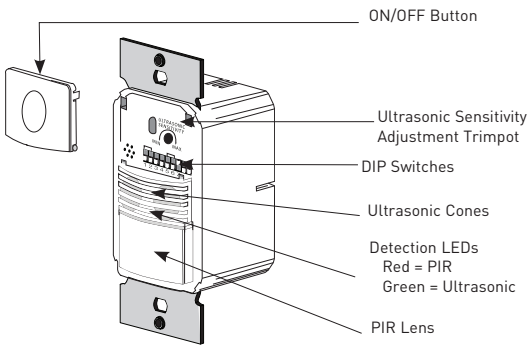
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Zero-crossing for long relay life
- Vandal resistant lens combines precise coverage with durability
- Choice of Manual-ON or Auto-ON operation
- Selectable walk-through mode turns lights off three minutes after the room is initially occupied if no motion is detected after the first 30 seconds
- Test mode allows quick and easy adjustments
- Selectable audible alert for impending shutoff
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Four occupancy logic options give users the ability to customize control to meet application needs
- Optional light level sensing with simple setup
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- Compatible with decorator wall plates
- Qualifies for ARRA-funded public works projects

Specifications

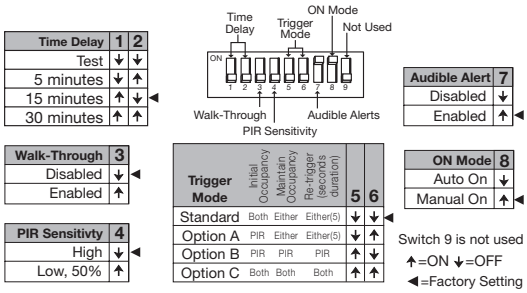
- DW-100: 120/277 VAC; 50/60 Hz
  @ 120 VAC, 0-800 W ballast or tungsten,1/6 hp
  @ 277 VAC, 0-1200 W ballast
- DW-100-347: 347 VAC; 50/60Hz, 0-1500 W ballast
- Time delays: 5, 15 or 30 minutes, walk-through, test-mode
- Coverage:
  Major motion, PIR 35' x 30', Ultrasonic 20' x 20'
  Minor motion, PIR 20' x 15', Ultrasonic 15' x 15'
- Sensitivity adjustment: PIR (high/low), Ultrasonic (fully variable)
- Dimensions: 2.73" x 1.76" x 1.83" (69.3mm x 44.7mm x 46.5mm) L x W x D
- UL and cUL listed
- Five year warranty

Controls & Settings

Product Controls

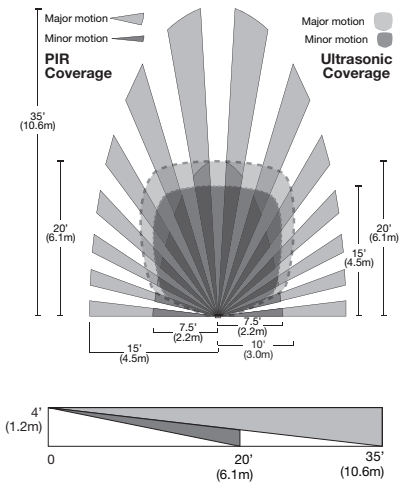


DIP Switch Settings

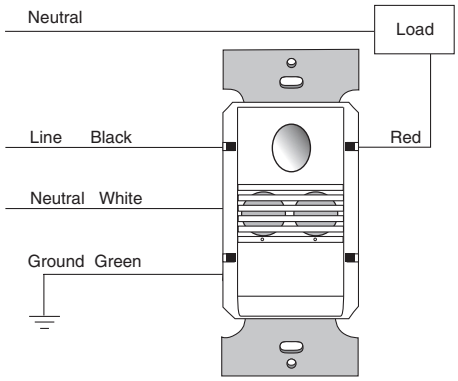


Coverage & Wiring

Coverage Pattern



Wiring Diagram



For best performance, WattStopper recommends using this sensor in spaces no larger than 18' x 15'.

Ordering Information

Catalog No.	Color	Voltage	Load Rating
☐ DW-100-W ☐ DW-100-W-U ☐ DW-100-W-FTA	White	120/277 VAC; 50/60 Hz	@ 120 VAC, 0-800 W ballast or tungsten,1/6 hp @ 277 VAC, 0-1200 W ballast
☐ DW-100-LA	Lt. Almond		
☐ DW-100-I ☐ DW-100-I-U ☐ DW-100-I-FTA	Ivory		
☐ DW-100-G	Grey		
☐ DW-100-B	Black		
☐ DW-100-347-W	White	347 VAC; 50/60 Hz	0-1500 W ballast
☐ DW-100-347-LA	Lt. Almond		
☐ DW-100-347-I	Ivory		
☐ DW-100-347-G	Grey		
☐ DW-100-347-B	Black		

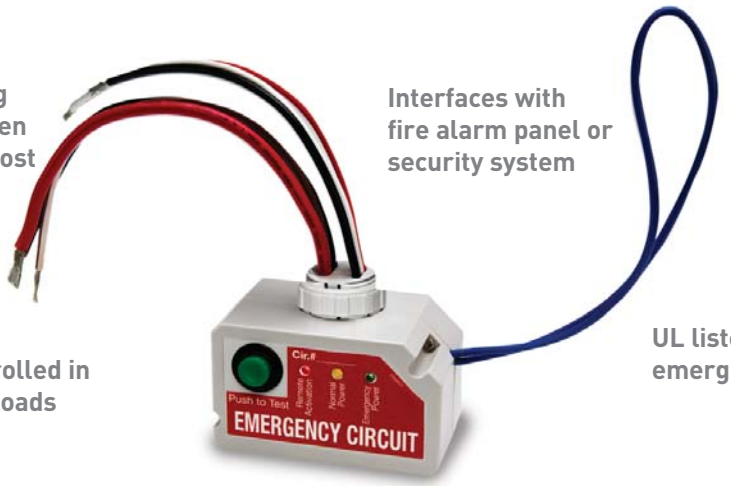
Order wall plate separately.

Pub. No. 22305 rev. 9/2010

ELCU-200 Emergency Lighting Control Unit

Guarantees emergency lighting remains ON or is turned on when power to the control device is lost

Interfaces with fire alarm panel or security system



"Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads

UL listed for use in emergency circuits

Integrated push-to-test button

PROJECT

LOCATION/TYPE

Product Overview

Description

WattStopper's ELCU-200 Emergency Lighting Control Unit is a self-contained device that allows any standard lighting control device to control emergency lighting in conjunction with normal lighting in any area within a building.

Operation

The ELCU-200 monitors a single circuit that provides normal lighting to an area. As long as normal power is present, the ELCU-200 permits lighting control devices (e.g., occupancy sensors, panels, dimmers, or wall switches) to control the emergency lighting fixtures as well as the general lighting. If power is lost for any reason, including the tripping of a single branch circuit breaker, the ELCU-200 will force on the emergency fixtures for that area. The ELCU-200 can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device (e.g., a dimmer) when normal power fails.

Mounting

The ELCU-200 mounts directly to a junction box or electrical enclosure that has a standard 1/2" knockout. It is compatible with all WattStopper occupancy sensors, daylighting controllers and power packs.

Applications

The ELCU-200 is designed to control lighting in areas where emergency lighting fixtures are connected on dedicated emergency lighting circuits that are typically on 24 hours per day. The ELCU-200 allows normal control of emergency lighting for energy savings and/or task related reasons while strictly adhering to National Electric Code (NEC) requirements. It is suitable for any application where enhanced energy saving of emergency lighting is desired.

Features

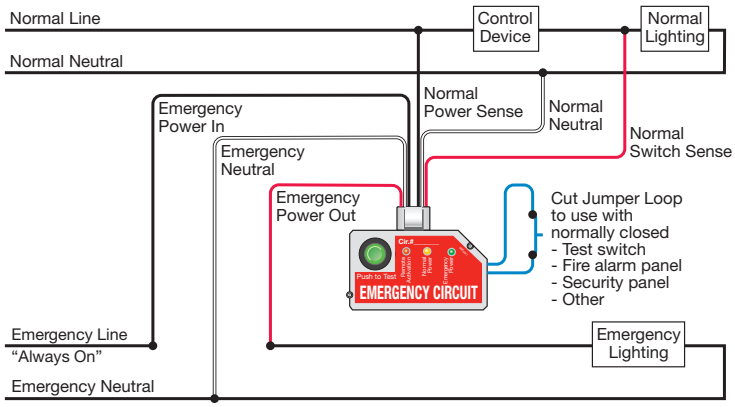
- Eliminates energy waste caused by emergency lighting that is always on
- Integral push-to-test button activates emergency mode for a true test condition
- Connects to EMTS-100 Remote Test Switch or other input to activate emergency on from a remote location
- Operates as a control device or as a shunt
- Senses local single circuit power failure
- Zero cross switching technology for reliability and increased product life
- Compatible with WattStopper occupancy sensors, daylighting controls, lighting control panels, and dimmers
- LED indication for emergency and normal power
- Half-second delayed on positively identifies emergency fixtures for required maintenance
- Provides absolute fail-to-on emergency lighting
- UL924 listed, meets NEC, OSHA and NFPA safety codes; UL2043 plenum rated
- Qualifies for use on ARRA-funded projects

Specifications

- 120/277 VAC; 60Hz
- Maximum load:
  - Ballast 20 A @ 120/277 VAC
  - Incandescent 10 A @ 120 VAC
  - Motor 1HP @ 120 VAC
- Remote activation: supplies 24 VDC source for dry contact closure
- Integral control: push-to-test button on unit
- Housing: fire rated V-0, 176° F (80°C)
- Operating temperature range: 32 to 131°F (0 to 55°C)
- Relative humidity range: 5 to 95%, noncondensing
- Dimensions: 1.7" x 2.97" x 1.64" (43.2mm x 75.4mm x 41.7mm) H x W x D with a 1/2" (12.7mm) threaded nipple
- UL, cUL listed Emergency Lighting and Power Equipment; five year warranty

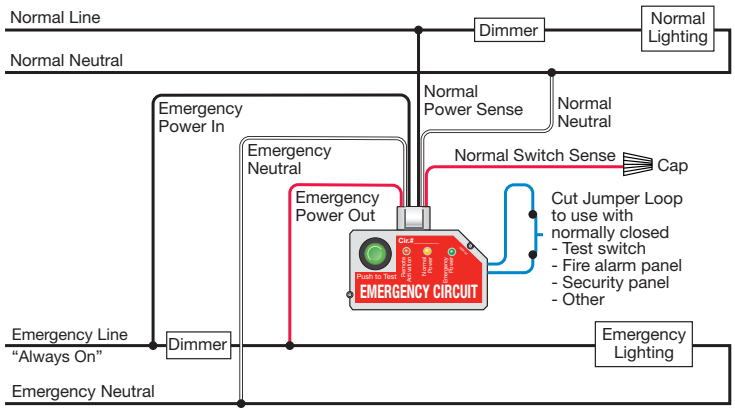
Installation and System Wiring

ELCU Wired As a Control Device



When wired as a control device, the ELCU-200 receives a switching signal from the output of the control device (relay, switch, power pack, etc.)

ELCU Wired As a Shunt, or Bypass, Device



When wired as a shunt, the switching line is not used.

Note: Use with WattStopper universal dimmers or contact dimmer manufacturer to determine the suitablity of the specified dimmer for shunt operation.

Ordering Information

Catalog No.	Description	Voltage
☐ ELCU-200	Emergency Lighting Control Unit	120/277 VAC; 60Hz
☐ ELCU-200-U	Emergency Lighting Control Unit, ARRA-compliant	120/277 VAC; 60Hz
☐ EMTS-100	Remote Test Switch on single gang plate	24VDC, normally closed contact

Pub. No. 29103 rev 9/2010

Hospital Products

15 and 20 Ampere, 125 Volts

2 Pole, 3 Wire Grounding

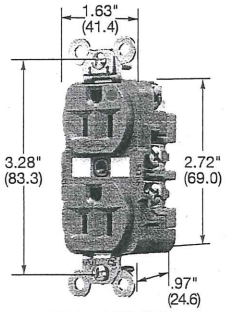
HBL® Extra Heavy Duty Duplex, Illuminated Face Duplex, Tamper-Resistant Duplex and Isolated Ground Duplex Receptacles

Fed.Spec.

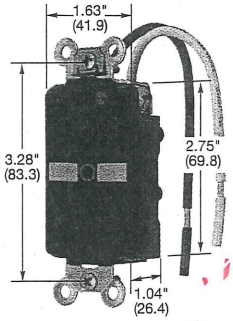
IP20 SUITABILITY

15A 125V NEMA 5-15R UL CSA 0.5 HP

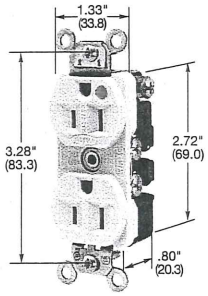
20A 125V NEMA 5-20R UL CSA 1 HP



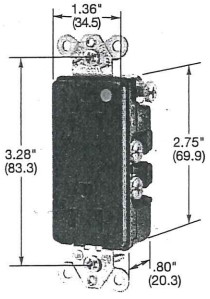
HBL8200GY



HBL8300SGA



HBL8200ILW



HBL2172

Hospital Grade ● Receptacles

HBL® Extra Heavy Duty, Duplex

Description	Color	Catalog Number	
Flush, thermoplastic polyester face, back and side wired, multiple drive screws.	Blue	–	HBL8300BL
	Brown	HBL8200	HBL8300
	Gray	HBL8200GY	HBL8300GY
	Ivory	HBL8200I	HBL8300I
	Light Almond	HBL8200LA	HBL8300LA
	Red	HBL8200R	HBL8300R
	White	HBL8200W	HBL8300W
Flush, illuminated face, back and side wired, multiple drive screws.	Gray	HBL8200ILGY	HBL8300ILGY
	Ivory	HBL8200ILI	HBL8300ILI
	Red	HBL8200ILR	HBL8300ILR
	White	HBL8200ILW	HBL8300ILW
TR Tamper-resistant receptacle with wire leads. Complies with requirements of NEC article 517-18(c).	Brown	HBL8200SGA	HBL8300SGA
	Gray	HBL8200SGGYA	HBL8300SGGYA
	Ivory	HBL8200SGIA	HBL8300SGIA
	Light Almond	HBL8200SGLA	HBL8300SGLA
	Red	HBL8200SGRA	HBL8300SGRA
	White	HBL8200SGWA	HBL8300SGWA
Isolated ground.(1)	Orange	IG8200	IG8300
	Red	IG8200R	IG8300R

Slender/Compact, Duplex

Description	Color	Catalog Number	
Flush, thermoplastic polyester face, back, and side wired, multiple drive screws, Fed. Spec. verified.	Brown	HBL8200H	HBL8300H
	Gray	HBL8200HG	HBL8300HG
	Green	–	HBL8300HGN
	Ivory	HBL8200HI	HBL8300HI
	Light Almond	HBL8200HLA	HBL8300HLA
	Red	HBL8200HR	HBL8300HR
	White	HBL8200HW	HBL8300HW

Style Line® Decorator, Duplex*

Description	Color	Catalog Number	
Flush, nylon face, back and side wired.	Brown	HBL2172	HBL2182
	Gray	HBL2172GY	HBL2182GY
	Ivory	HBL2172I	HBL2182I
	Office White	–	HBL2182OW
	Red	HBL2172R	HBL2182R
	White	HBL2172WA	HBL2182WA
Isolated ground.(1)	Ivory	–	IG2182I
	Orange	–	IG2182
	White	–	IG2182WA

Note: (1) See Section J for complete line of isolated ground devices.
** Not Fed. Spec. Listed.*
See Technical Section X, page X-10 for TR and WR descriptions.
See page A-46 for accessories.
See Section K for wallplates.

PG-54

NURSE CALL DOME LIGHT AND BUZZER

TECHNICAL SPECIFICATIONS

Bottom view of dome lens

FUNCTION

The FDB flasher buzzer dome is primarily used for stand-alone applications requiring an indication such as toilet and priority station not associated with a master or patient station. Whether mounted above (or next to) the doorway it will flash and sound when its associated station is activated. The Dome Lamp will produce a bright light that is easily seen both at great distances and under high ambient-lighting conditions. As a result, nurses and staff members are quickly directed to the source of a call. The Dome Lamp's distinct flash indicates an emergency call.

STANDARD FEATURES

- Translucent, wedge shaped dome lens for maximum visibility in all directions even at great distances and under high ambient lighting conditions.
- Internal solid state flasher. Requires an optional 12v AC transformer.
- Front-replaceable lamp for simplified service.
- Installation hook up to a plug-in block with screw terminals.
- Standard two-gang faceplate, ABS plastic.
- Pulsating sounder

OPTIONS

/W	White Lamp
/R	Red Lamp
/B	Blue Lamp
/A	Amber Lamp
/G	Green Lamp

DIMENSIONS

Faceplate.....4½”H x 4$^{9}/_{16}$”W x 3”D

Backbox.....Steel City #72C18 – 2-gang adaptor

Intercall systems, Inc.™ 150 Herricks Road, Mineola, NY 11501 Tel: (516) 294-4524 www.intercallsystems.com

NURSE CALL POWER SUPPLY

TECHNICAL SPECIFICATIONS

FUNCTION

Provides a low voltage (12Vac) source to power the flasher and supply voltage for a stand alone system to function.

STANDARD FEATURES

- Enclosed connections
- Primary pigtails (120Vac)
- Screw terminal connection on secondary (12Vac)
- Holes providing for mounting

DIMENSIONS: 4” W x 5½” L
Mounting: 3⅛” x 4⅜

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NURSE CALL PULL CORD

TECHNICAL SPECIFICATIONS

FUNCTION

The pullcord Emergency Station (PCE) is intended for use in toilets, baths, tub rooms and other areas where priority calls require immediate attention. The PCE49 consists of a pullcord, toggle switch and a red lamp. The pullcord activates both the toggle switch and illuminates the red lamp to indicate that an emergency call has been placed. This station is intended for use in patient areas.

All calls placed at these stations are priority calls and can only be canceled at the point of origination.

STANDARD FEATURES

- Easily operated, heavy-duty, color coded pull switch
- Durable nylon pullcord (4' for PCE49 and PCE1650, 5' for PCE1651) with an easy-to-grasp knob and adjustable length
- Large, highly visible color coded call indicator flashes to assure that the call has been placed
- High LED intensity for long term reliability
- Fire retardant, high-impact, molded thermoplastic one-gang off-white faceplate with Lexan labels
- Standard one-gang faceplate made from fire retardant ABS plastic
- Rubber gasket supplied on PCE1651 for splash proof operation

AVAILABLE MODELS & OPTIONS

MODEL #	DESCRIPTION
PCE49	Toilet Pullcord Station Red Toggle Switch with red indicator lamp PULL FOR HELP label - Plastic
PCE1650	Toilet Pullcord Station Red Toggle Switch with red indicator lamp PULL FOR HELP - Stainless steel
PCE1651	Shower Splash Proof Toggle Switch with red indicator lamp PULL FOR HELP – Stainless steel
/X2	Two-Gang faceplate (stainless steel only)

DIMENSIONS

Faceplate.....4½”H x 2¾” W

Backbox.....Standard electrical box, 4 11/16” square with a one-gang adapter, 2⅞” overall depth

Flush mounting: Steel City #72171 box plus 72C14 – one-gang adapter

Surface mounting: Wiremold #5748

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