REV:09.25.04

INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

INPUT 120/277 VAC

MAE

2 CONDUCTORS
(1) BLUE-
(1) YELLOW+

RPS

OUTPUT 12 VDC

SEE TABLE 1 PAGE 2 FOR MAX WIRING LENGTH
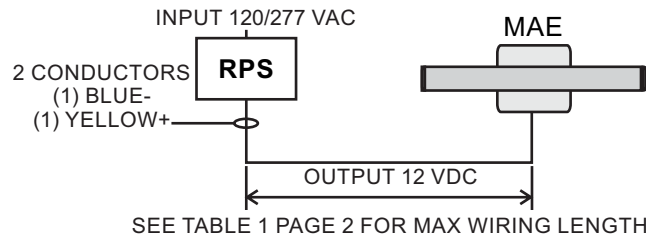
ITEM	DESCRIPTION
1	CANOPY
2	BATTERY 12V 5Ah/8Ah
3	LAMP HOUSING ASSBY

SUITABLE FOR WET LOCATIONS
AMBIENT TEMPERATURE LIMITS:
Remote models: -40º C to +50º C

ADAPTOR PLATE

PIGTAIL
CONNECTOR

(2) # 8-32 x 3/4"
CANOPY MOUNT SCREW

Yellow+
Blue-

12VDC
Input from
RPS

WALL

Gasket

TOP MT
(OPTION)

LAMP HOUSING
ASSBY

① ③
RECESSED J-BOX **MOUNT**
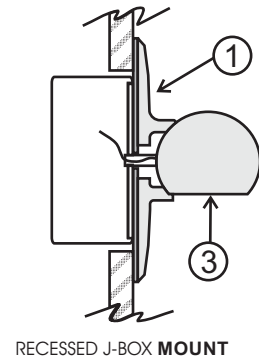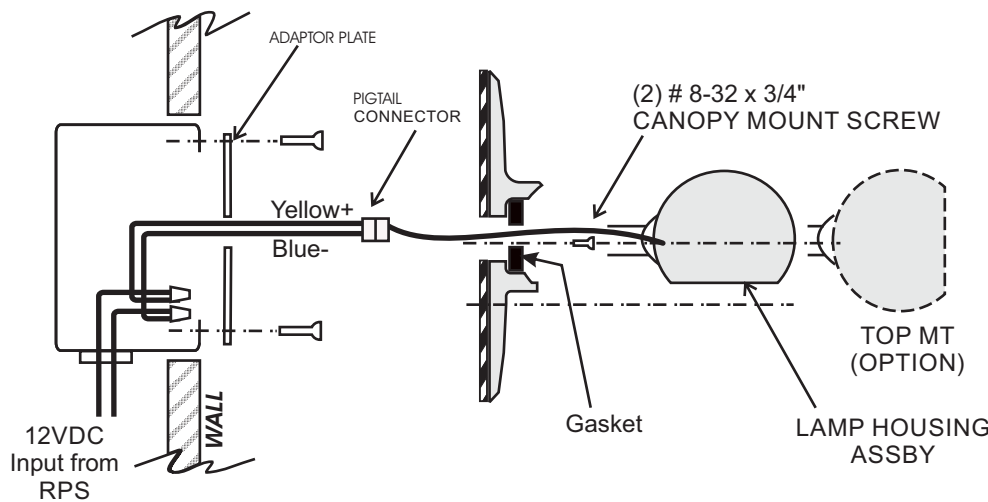
SURFACE MOUNT-FITTED
TWO-GANG FIXTURE BOX:
DIE CAST ALUMINUM 2" DEEP 28 CUBIC IN.
(Supplied by others)
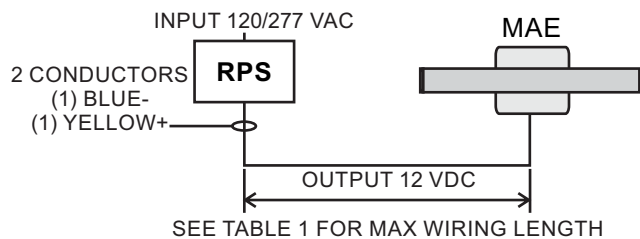**EXAMPLE: BELL #5346-0 OR EQUAL**

Fixture Assembly

1. Install J-Box 1/8"-1/4" below finished panel surface. Connect 12VDC input circuit wiring from RPS as shown above, and connect the YELLOW+ and BLACK- leads to the pigtail connector supplied
2. Run Pigtail Connector through Adaptor Plate center hole and attach to J- box with 2 #8-32 screws.

3. Secure Canopy with two #8-32 x 3/4" MOUNT screws supplied and tighten to compress gasket evenly. DO NOT over tighten.

7. Place Lamp Housing Assembly over Canopy Plate and connect Lamp Plug.

8. Insert Lamp Plug wiring through center hole in Gasket while placing Lamp Housing in position. Tighten (2) #6-32 set screws to secure in position.

9. Turn ON building AC supply to RPS and operate test switch to confirm emergency operation. Batteries require 24 hrs for full charge. Operate control switch option where supplied to confirm normally ON operation.

IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Disconnect AC power before servicing.
2. Refer to wiring diagram for proper connections.
3. All servicing should be performed by qualified personnel.
4. Consult your local building code for approved wiring and installation.
5. Do not use this equipment for other than intended use.
6. Do not let power cords touch hot surfaces.

7. Mount and secure the fixture at a location and height to avoid ready access and tampering by unauthorized persons.
8. The use of accessory equipment is not recommended by the manufacturer and may cause an unsafe condition.
9. Suitable for wet locations. See product label for temperature limitations.
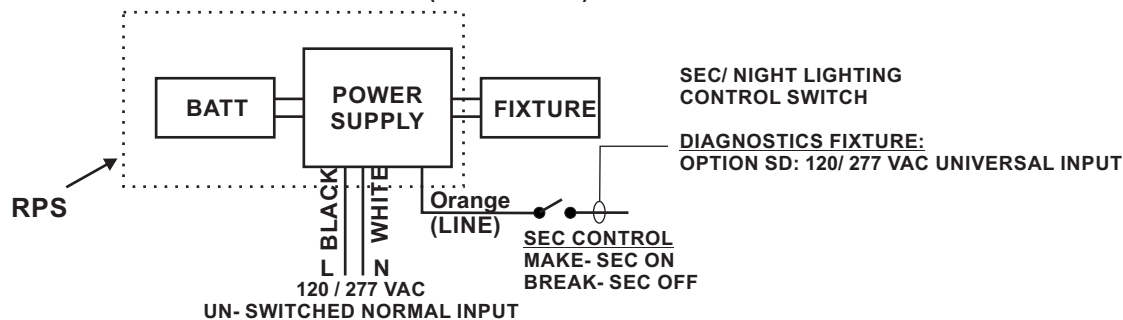
SAVE THESE INSTRUCTIONS

INPUT 120/277 VAC

MAE

2 CONDUCTORS
(1) BLUE-
(1) YELLOW+

RPS

OUTPUT 12 VDC

SEE TABLE 1 FOR MAX WIRING LENGTH

TABLE 1
MAXIMUM WIRING LENGTH FROM RPS TO FIXTURE

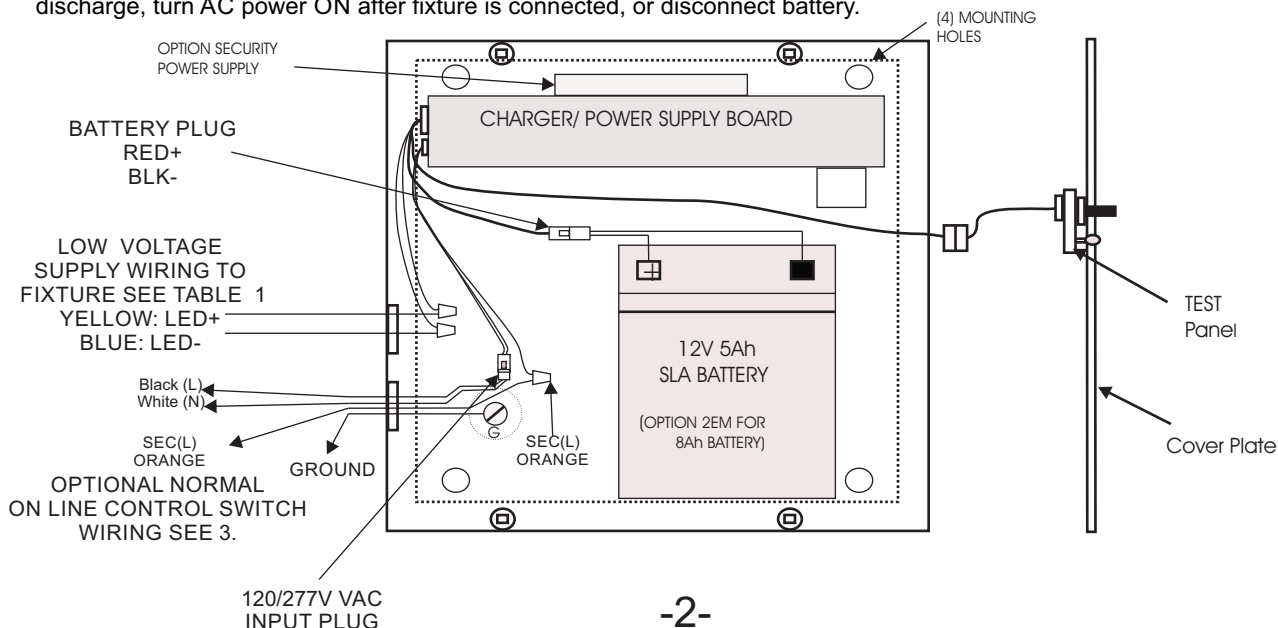| WIRING SIZE AWG	LENGTH (FT) MAEBB20
#22	25
#20	40
#18	60
#16	100
#14	160
#12	250

Remote Power Supply (RPS)

1. See Fig. 1. Place power supply assembly inside housing and note available knock-outs for wiring clearance. Remove suitable K.O's in areas with clearance for wiring and connecters. Use framing or brackets to install RPS housing as shown, in a location convenient for access to battery and power supply. Align top edge flange flush with finished panel surface. See Table 1 to estimate wire size required based on maximum wiring length for low voltage output wiring from RPS to the fixture.

2. INPUT WIRING: Connect BLACK/WHITE AC input wiring to building supply with wire nuts, and connect GROUND to Housing with Screw mount.

3. SECURITY LIGHTING SWITCH CONTROL (OPTION -SD):

BATT

POWER SUPPLY

FIXTURE

SEC/ NIGHT LIGHTING CONTROL SWITCH

**DIAGNOSTICS FIXTURE:
OPTION SD: 120/ 277 VAC UNIVERSAL INPUT**

RPS

BLACK / L   WHITE / N

Orange (LINE)

**SEC CONTROL
MAKE- SEC ON
BREAK- SEC OFF**

**120 / 277 VAC
UN- SWITCHED NORMAL INPUT**

4. OUTPUT LOW VOLTAGE WIRING*:

 See Table 1 for minimum wire size based on distance to fixture. Example using #20 AWG, max distance is 40 ft. Route conductors from the RPS to the fixture location.

5. Connect the BATTERY plug: Note If AC power is OFF, the fixture will turn ON under battery power. To minimize battery discharge, turn AC power ON after fixture is connected, or disconnect battery.

(4) MOUNTING HOLES

OPTION SECURITY POWER SUPPLY

CHARGER/ POWER SUPPLY BOARD

BATTERY PLUG
RED+
BLK-

LOW VOLTAGE SUPPLY WIRING TO FIXTURE SEE TABLE 1
YELLOW: LED+
BLUE: LED-

12V 5Ah
SLA BATTERY

(OPTION 2EM FOR 8Ah BATTERY)

TEST Panel

Black (L)
White (N)

SEC(L) ORANGE

GROUND

SEC(L) ORANGE

Cover Plate

OPTIONAL NORMAL ON LINE CONTROL SWITCH WIRING SEE 3.

120/277V VAC INPUT PLUG

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MOUNTING DATA

MAXIMUM WIRING LENGTH FROM 20 WATTS RPS TO FIXTURE

WIRING SIZE AWG	LENGTH (FT) MAEBB-20
#18	60
#16	100
#14	160
#12	250

MAE20 SPACING GUIDE

Mounting Height: 12' A.F.F.

Average Illuminance 1 Fc **Model Shown:** MAE 20 Watts
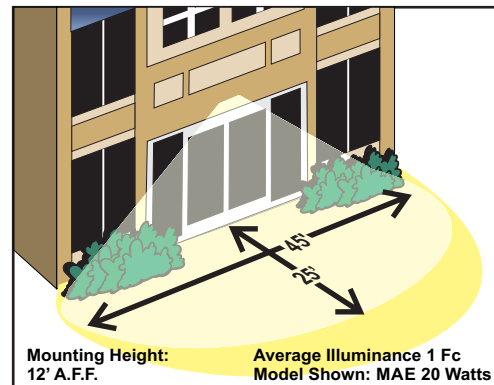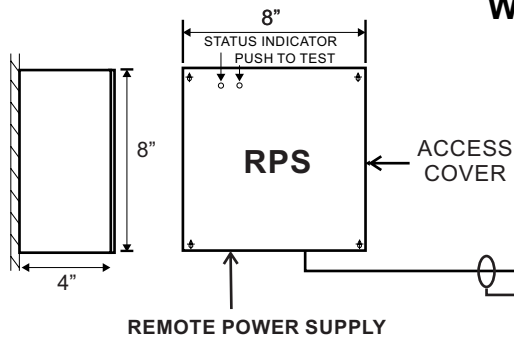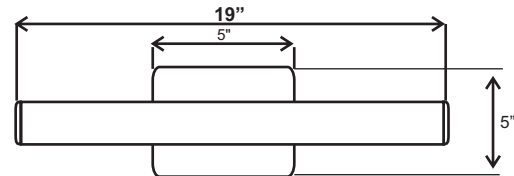
NOTE: FOR REFERENCE ONLY. STANDARD REFLECTANCES 80/50/20. SIGNTEX IS NOT RESPONSIBLE FOR SPECIFIC CONDITIONS THAT MAY ALTER THE RESULTS.

CONTACT SIGNTEX FOR LAYOUT ASSISTANCE
Code Compliant Emergency lighting layouts provided free of charge!
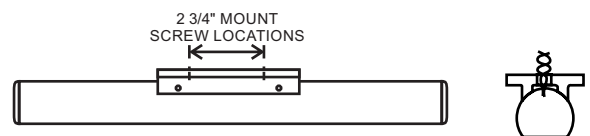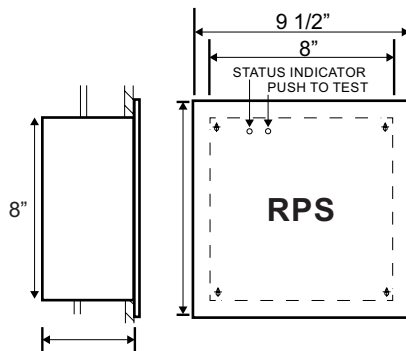
SURFACE MOUNT

8"

STATUS INDICATOR
PUSH TO TEST

8"

RPS

ACCESS COVER

4"

REMOTE POWER SUPPLY

WALL MOUNT

19"

5"

5"

BB Models: 2 Conductors-12VDC

Typical Wiring Specification:
UL AWM Style: Control Cable #20 AWG 300V

CEILING MOUNT

2 3/4" MOUNT
SCREW LOCATIONS

RECESS MOUNT (OPTION REC)

9 1/2"

8"

STATUS INDICATOR
PUSH TO TEST

8"

RPS

SELF- TEST DIAGNOSTIC FUNCTIONS
BB MODELS WITH DG FUNCTION

STATUS		LED DISPLAY
NORMAL FULL CHARGE	🟢	GREEN ON
NORMAL FAST CHARGE	🟠	ORANGE ON
FAILED BATTERY	🔴🔴	RED FLASH FAST
FAILED LAMP	🟢🟢	GREEN FLASH
FAILED TRANSFER	🟠🟠	ORANGE FLASH
FAILED CHARGER	🔴🔴	RED FLASH SLOW

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Specifications and dimensions subject to change without notice.

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NOTES