bodine ®

RMC-60 Remote Mounting Covers

2.25 in.

0.8 in.

2.3 in.

Model No.

> RMC-60
> Item # PRT00009

Description

> Standard wire bundle covers

Comments/Application

> For emergency ballast installation on top of certain fixtures

> May be required by state or local codes

> One RMC-60 kit needed per emergency ballast (includes two covers)

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

RMC-60
Wire Bundle Covers

Two (2) - 5/8 " Black Bushings

Two (2) Sheet Metal Screws

2.25 in.

2.3 in.

0.8 in.
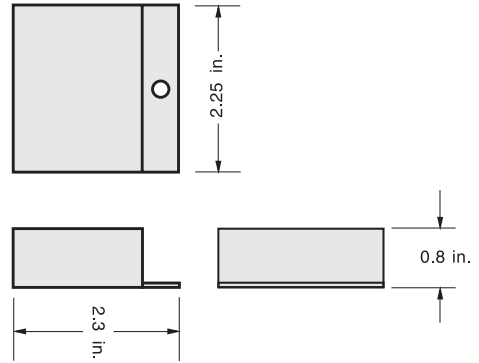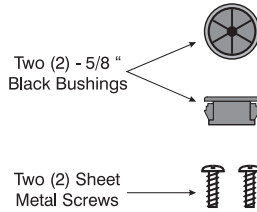
MAY BE REQUIRED BY STATE OR LOCAL CODES
ONLY ONE RMC-60 PER FLUORESCENT EMERGENCY BALLAST
SOLD SEPARATELY
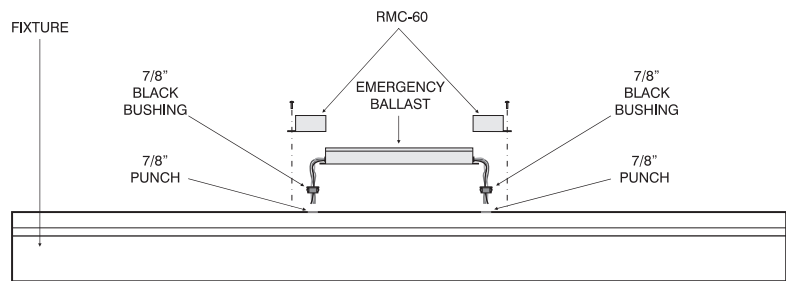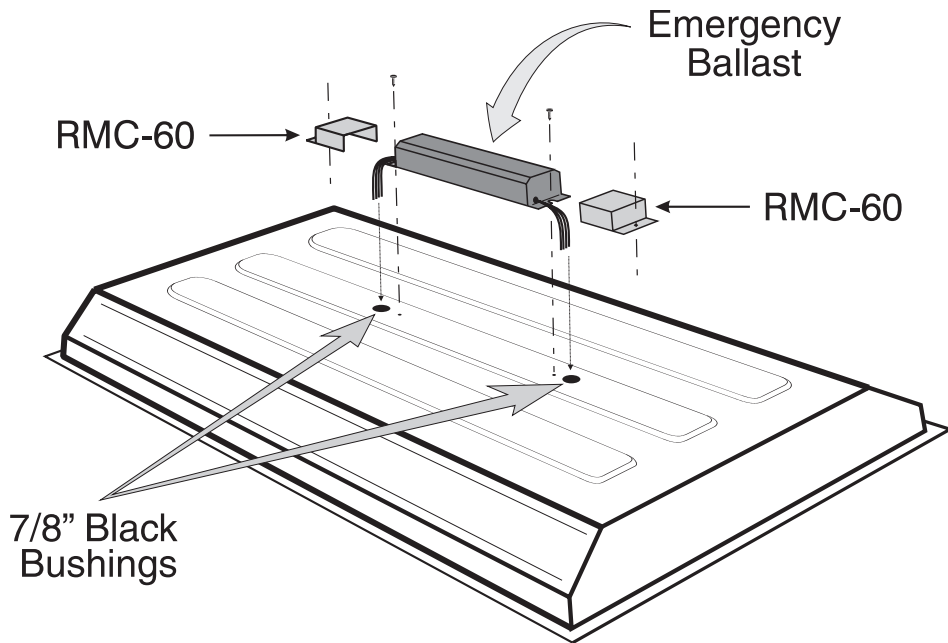
Emergency Ballast

RMC-60

RMC-60

7/8" Black Bushings

FIXTURE

RMC-60

7/8"
BLACK
BUSHING

EMERGENCY
BALLAST

7/8"
BLACK
BUSHING

7/8"
PUNCH

7/8"
PUNCH

Lighting Technologies

bodine ®

A Division Of Philips Electronics North America Corporation

RMC-LP - Low Profile Remote Mounting Covers

1.00"

2.38"

1.25"
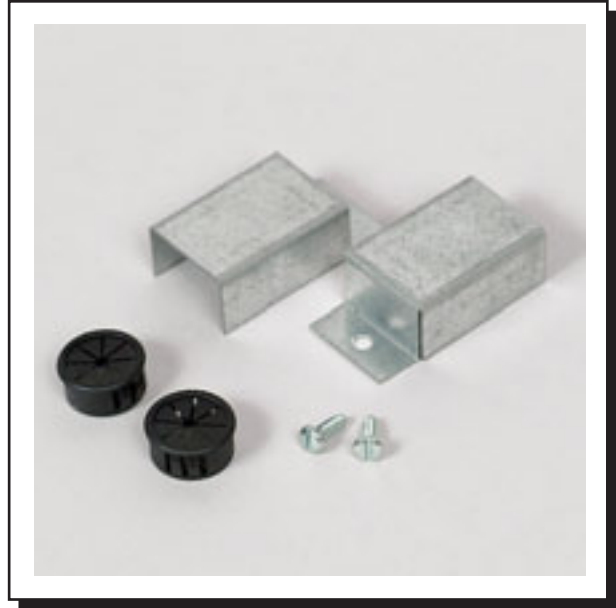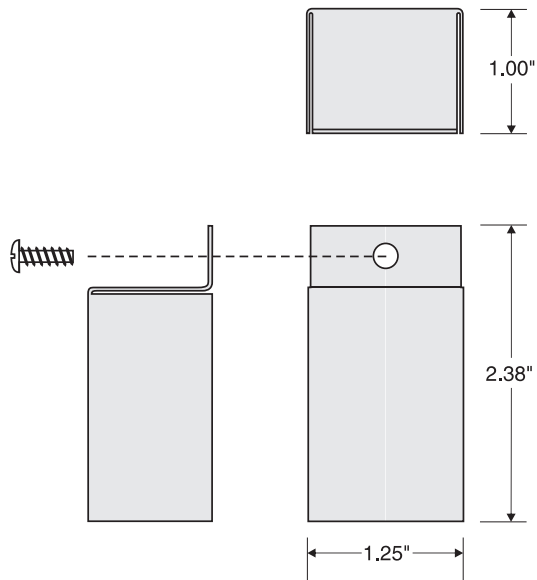
Model No.

> RMC-LP
> Item # PRT00047

Description

> Wire bundle covers for low-profile products

Comments/Application

> For emergency ballast installation on top of certain fixtures

> May be required by state or local codes

> One RMC-LP kit needed per emergency ballast
  Note: For certain low-profile emergency ballasts, one RMC-LP kit can be used for mounting two units. Please contact factory for details.

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

RMC-LP
Wire Bundle Covers

Two (2) - 5/8 " Black Bushings

Two (2) Sheet Metal Screws

1.25"

1.00"

2.38"

MAY BE REQUIRED BY STATE OR LOCAL CODES
ONLY ONE RMC-LP PER FLUORESCENT EMERGENCY BALLAST
SOLD SEPARATELY

Emergency Ballast

RMC-LP

RMC-LP

5/8" Black Bushings

FIXTURE

RMC-LP

7/8"
BLACK
BUSHING

EMERGENCY
BALLAST

7/8"
BLACK
BUSHING

7/8"
PUNCH

7/8"
PUNCH

Lighting Technologies

bodine ®

Test/Monitor Wall Plate Assembly-SP

1 mm
(0.2 in.)

58 mm
(2.75 in.)

EMERGENCY LIGHT PUSH TO TEST

116mm
(4.55 in.)

CHARGING INDICATOR LIGHT

Model No.

> PL-SP
> Item # PRT00003

Description

> Single-pole test switch rated 3A @ 277 VAC (6A @ 125 VAC)
> & LED indicator light on wall plate

Comments/Application

> For remote installation of the test switch: next
> to fixture, on wall, in maintenance room, etc.
> (maximum distance: 50 feet)

> Can be used with emergency ballasts normally
> supplied with a single-pole test switch

> Fits single gang box (not supplied)

This Product Is For Use With Bodine Products Only

L1000027
03/20/07 © The Bodine Company
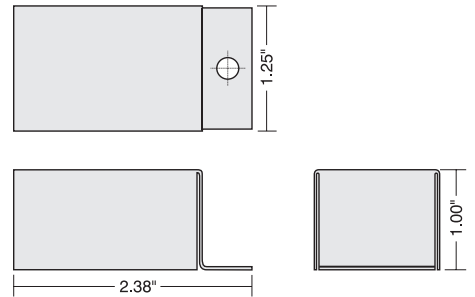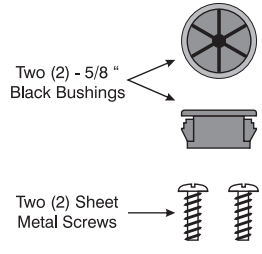P.O. Box 460 Collierville, TN USA 38027-0460
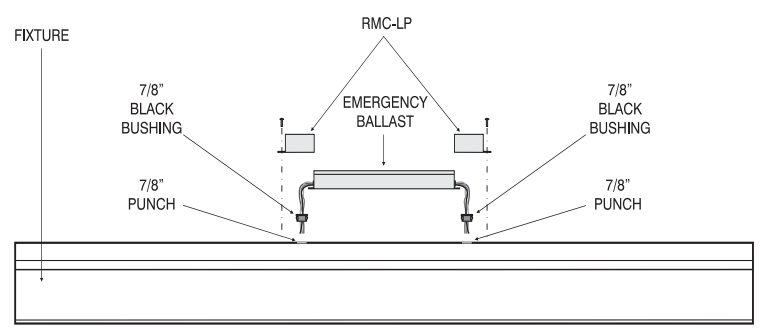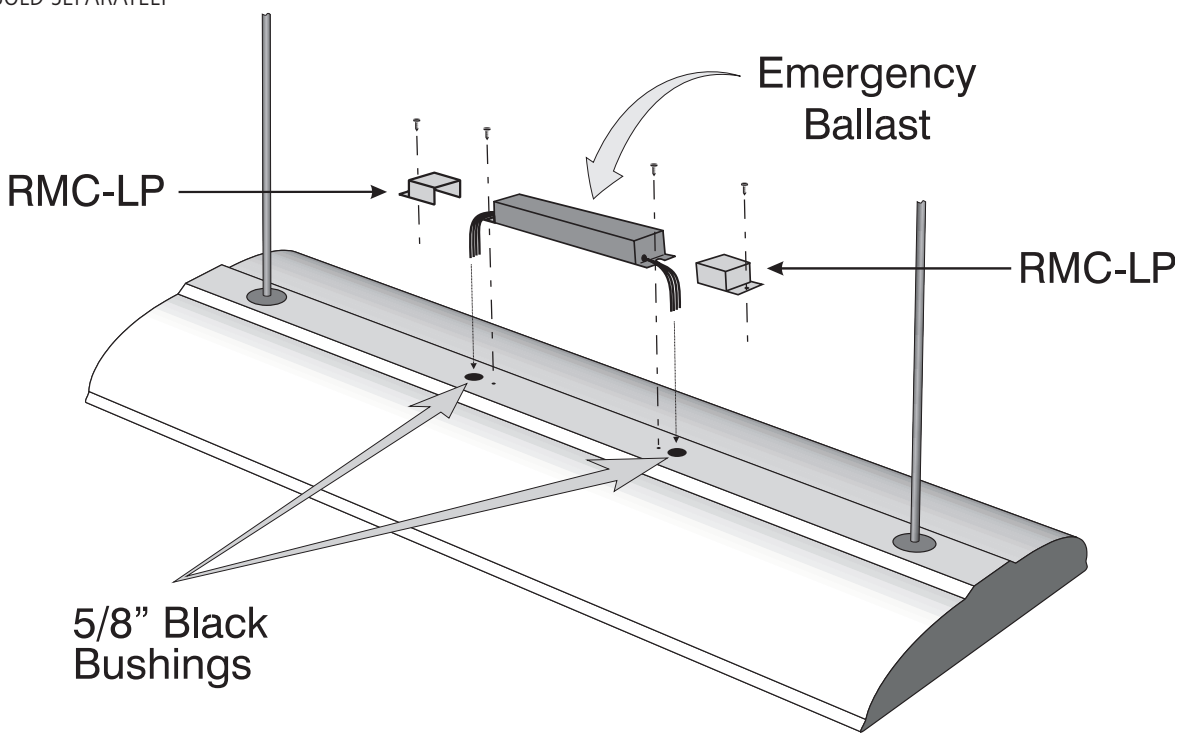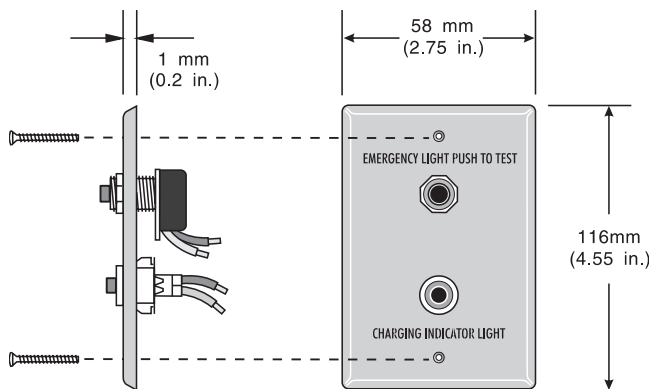800.223.5728 Fax 901.853.7211
www.bodine.com

Lighting Technologies

bodine ®

Single Pole Test Switch

TWO HEX NUTS

0.47″

0.5″

15/32
THREADS

0.56″

.88″

0.56″

MOUNTING HOLE

WITH KEYWAY

0.5″

0.062″

NOTE: STANDARD LEAD LENGTH IS 6″

0.038″

Model No.

> SPTS
> Item # PRT00028

Description

> Single-pole test switch rated 3A @ 277 VAC and
6A @ 125 VAC

Comments/Application

> For remote installation of the test switch: next to
fixture, on wall, in maintenance room, etc.
(maximum distance: 50 feet)

> Can be used with emergency ballasts and other
products normally supplied with a single pole
test switch.

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

A Division Of Philips Electronics North America Corporation

Test/Monitor Wall Plate Assembly-SP (347 VAC)

1 mm
(0.2 in.)

58 mm
(2.75 in.)

EMERGENCY LIGHT PUSH TO TEST

116mm
(4.55 in.)

CHARGING INDICATOR LIGHT
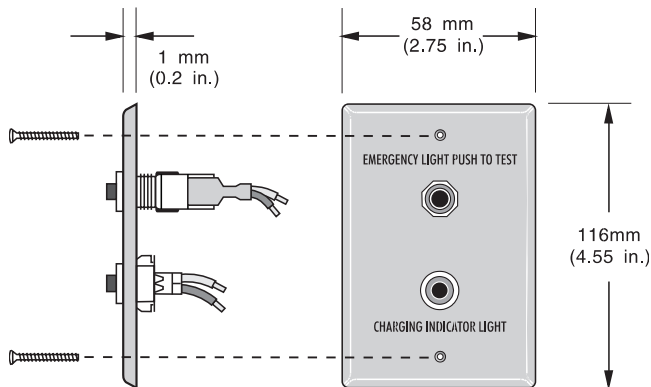
Model No.

> PL-SPCAN
> Item # PRT00036

Description

> Single-pole test switch (2A @ 347 VAC) & LED indicator light on wall plate

Comments/Application

> For remote installation of the test switch: next to fixture, on wall, in maintenance room, etc. (maximum distance: 50 feet)

> Can be used with emergency ballasts normally supplied with a single-pole test switch rated for 2A @ 347 VAC

> Fits single gang box (not supplied)

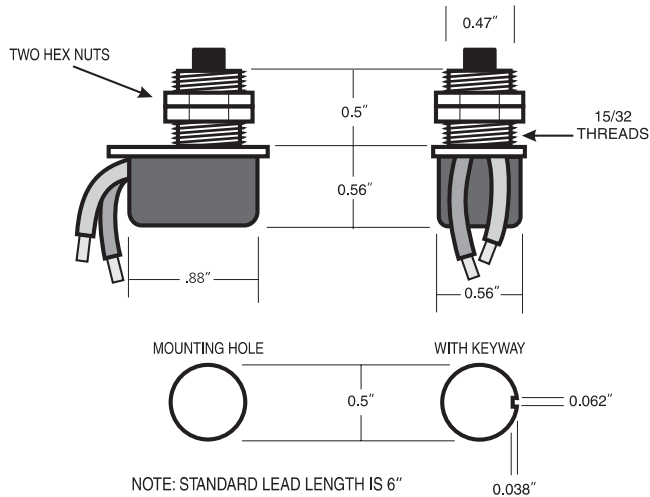**This Product Is For Use With Bodine Products Only**

Lighting Technologies

bodine ®

Test/Monitor Wall Plate Assembly-DP

58 mm
(2.75 in.)

1 mm
(0.2 in.)

EMERGENCY LIGHT PUSH TO TEST

116mm
(4.55 in.)

CHARGING INDICATOR LIGHT

Model No.

> PL-DP
> Item # PRT00013

Description

> Double-pole test switch rated 3A @ 277 VAC
> & LED indicator light on wall plate

Comments/Application

> For remote installation of the test switch: next
> to fixture, on wall, in maintenance room, etc.
> (maximum distance: 50 feet)

> Can be used with emergency ballasts normally
> supplied with a double-pole test switch

> Fits single gang box (not supplied)

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

A Division Of Philips Electronics North America Corporation

Double Pole Test Switch

TWO HEX NUTS

0.47″

0.5″

15/32 THREADS

0.56″

1.00″

0.56″

MOUNTING HOLE

WITH KEYWAY

0.5″

0.062″
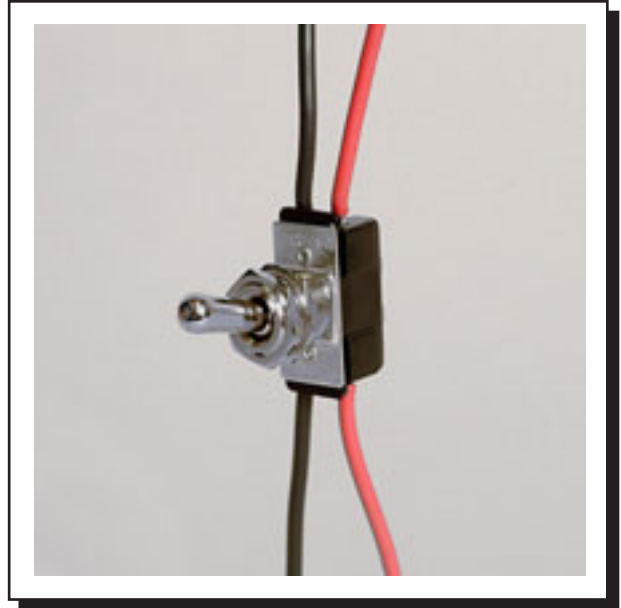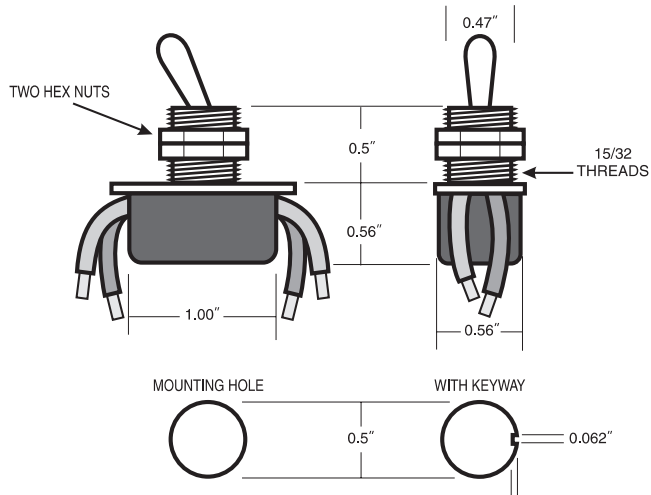
Model No.

> DPTS
> Item # PRT00027

Description

> Double-pole test switch rated 3A @ 277 VAC

Comments/Application

> For remote installation of the test switch: next to fixture, on wall, in maintenance room, etc. (maximum distance: 50 feet)

> Can be used with emergency ballasts and other products normally supplied with a double pole test switch.
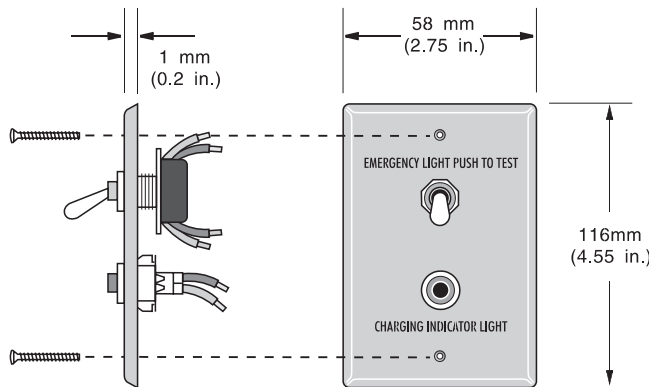
This Product Is For Use With Bodine Products Only

L1000008

03/20/07 © The Bodine Company
P.O. Box 460 Collierville, TN USA 38027-0460
800.223.5728 Fax 901.853.7211
www.bodine.com

Lighting Technologies

bodine ®

ITS (Indicator Light Test Switch)

Washer   Hex Nut

Indicator Light / Test Switch

0.375

VIOLET (LED+)
BLACK (VAC)
BROWN (LED-)
BLACK (VAC)

0.4

1.7   6.6
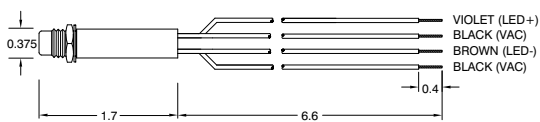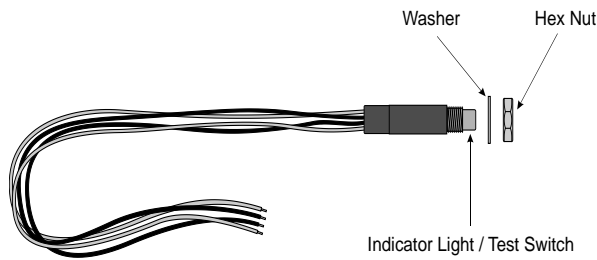
WARNING See ITS and Emergency Ballast installation instructions for proper wiring connections. Failure to follow these instructions may cause personal injury or equipment damage.
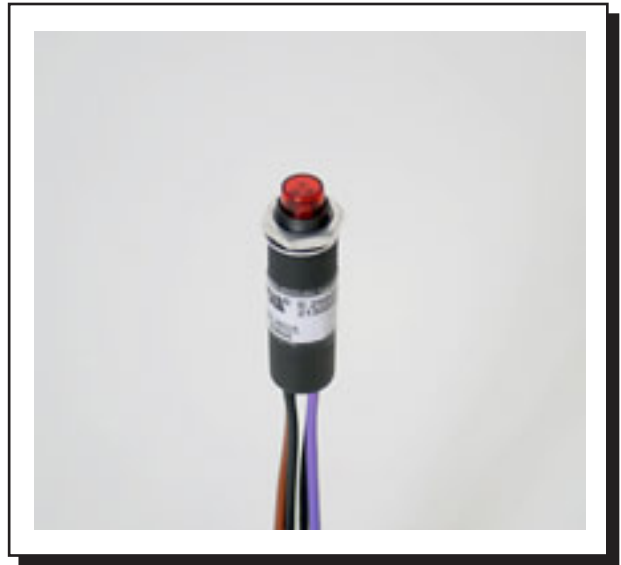
Model No.

> ITS
> Item # PRT00064

Description

> Indicator light, test switch assembly rated 3A @ 277 VAC

Comments/Application

> The ITS is both test switch and LED indicator light in one assembly allowing for mounting in a single fixture hole.

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

ITS (Indicator Light Test Switch)

EMERGENCY LIGHT PUSH TO TEST
CHARGING INDICATOR LIGHT

0.375

VIOLET (LED+)
BLACK (VAC)
BROWN (LED-)
BLACK (VAC)

0.4

1.7   6.6

WARNING See ITS and Emergency Ballast installation instructions for proper wiring connections. Failure to follow these instructions may cause personal injury or equipment damage.

Model No.

> ITS on wall plate
> Item # PRT00065

Description

> Indicator light, test switch assembly rated 3A @ 277 VAC

Comments/Application

> The ITS is both test switch and LED indicator light in one assembly allowing for mounting in a single fixture hole.

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

ITS (Indicator Light Test Switch)

Plastic Tube

Strain Relief Bushing

Washer

Hex Nut

Indicator Light/Test Switch

0.375

VIOLET (LED+)
BLACK (VAC)
BROWN (LED-)
BLACK (VAC)

0.4

1.7   6.6

WARNING See ITS and Emergency Ballast installation instructions for proper wiring connections. Failure to follow these instructions may cause personal injury or equipment damage.

Model No.

> ITS with kit
> Item # PRT00066

Description

> Indicator light, test switch assembly rated 3A @ 277 VAC

Comments/Application

> The ITS is both test switch and LED indicator light in one assembly allowing for mounting in a single fixture hole.
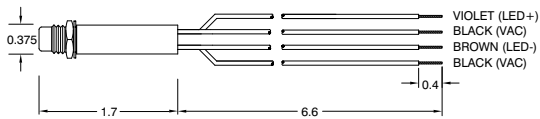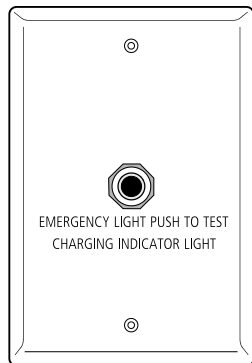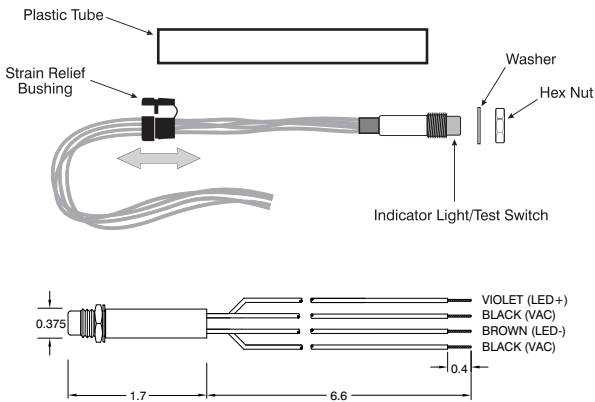
This Product Is For Use With Bodine Products Only
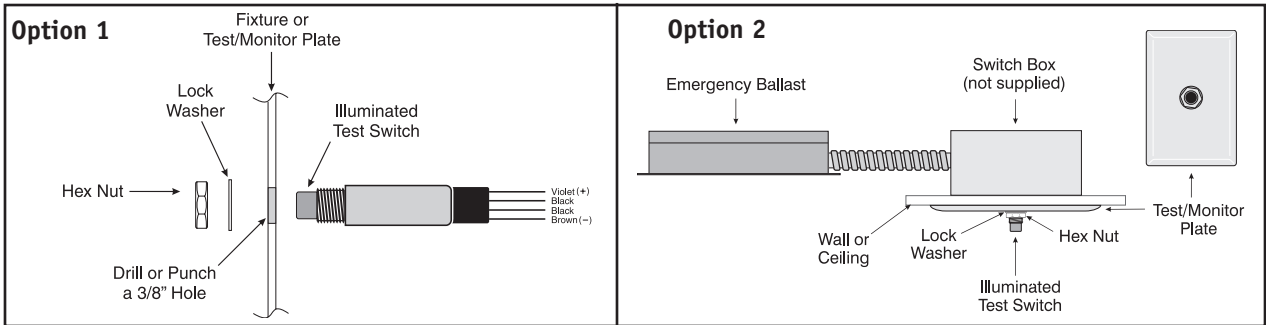
Lighting Technologies

ILLUMINATED TEST SWITCH (ITS)
INSTALLATION INSTRUCTIONS

bodine®

**FOR EMERGENCY BALLAST INSTALLATION AND WIRING, REFER TO
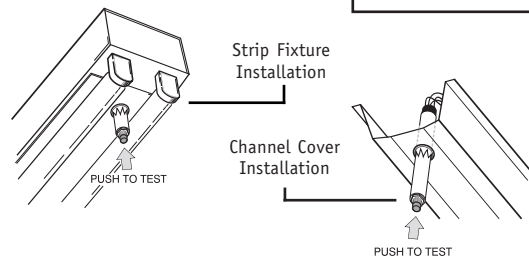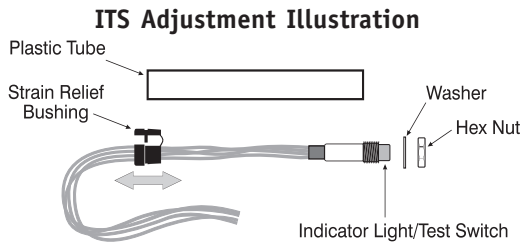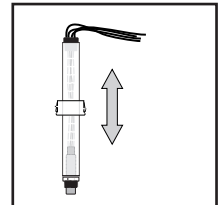EMERGENCY BALLAST INSTALLATION INSTRUCTIONS.**

ITS INSTALLATION OPTIONS
(Observe proper polarity.)

1. Select the appropriate ITS installation diagram for your application from the options shown.
2. Locate the ITS so the charging indicator light is on the outside of the fixture and can be seen after installation.
3. Wiring diagrams for the ITS are on the back of this page.

Option 1

Fixture or Test/Monitor Plate
Lock Washer
Illuminated Test Switch
Hex Nut
Violet (+)
Black
Black
Brown (−)
Drill or Punch a 3/8" Hole

Option 2

Switch Box (not supplied)
Emergency Ballast
Wall or Ceiling
Lock Washer
Hex Nut
Test/Monitor Plate
Illuminated Test Switch

Option 3 Follow the steps below to install the test switch on the ballast channel cover.
- Drill or punch a 7/8 inch hole in ballast channel cover and insert bushing.
- Slide the ITS tube up or down to adjust the height and visibility of the charging indicator light.
- If the tube is too long, cut the plastic tubing to necessary length.
- After cutting the tube to the proper length, assemble the ITS.

ITS Adjustment Illustration

Plastic Tube
Strain Relief Bushing
Washer
Hex Nut
Indicator Light/Test Switch

Strip Fixture Installation
PUSH TO TEST

Channel Cover Installation
PUSH TO TEST

To assemble the ITS:
- Remove the washer and hex nut from the ITS.
- Place the strain relief bushing on the wires back from the tip of the switch approximately the length of the plastic tube.
- Feed the switch through the plastic tubing and seat the tapered end of the strain relief bushing into the tubing. The threaded end of the switch should protrude slightly from the plastic tubing. If the threaded end of the switch is not extending beyond the end of the plastic tubing or is protruding too far, reposition the strain relief bushing until you achieve the desired result.
- Place the washer and hex nut back on the switch and tighten.

The ITS replaces the original test switch and LED provided with the emergency ballast.

ITS WIRING DIAGRAMS

(Primary circuits only; lamp connections not shown.)

Switched Fixture

Unswitched Fixture

Use this diagram strictly for Self-Test, RCT & B50 Cold-Pak fluorescent emergency ballasts.

Use this diagram strictly for a compact fluorescent emergency ballast with conduit.

Use this diagram strictly for LP (low profile) series fluorescent emergency ballasts except LP400.
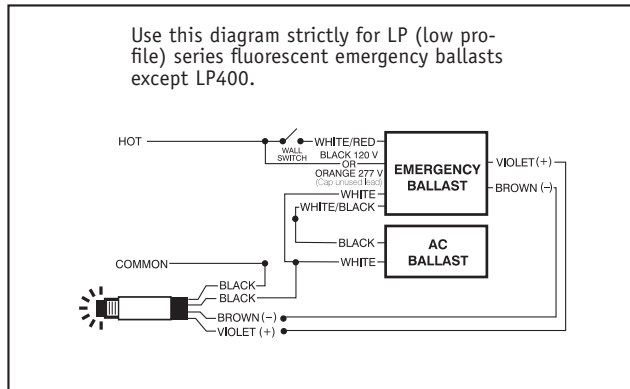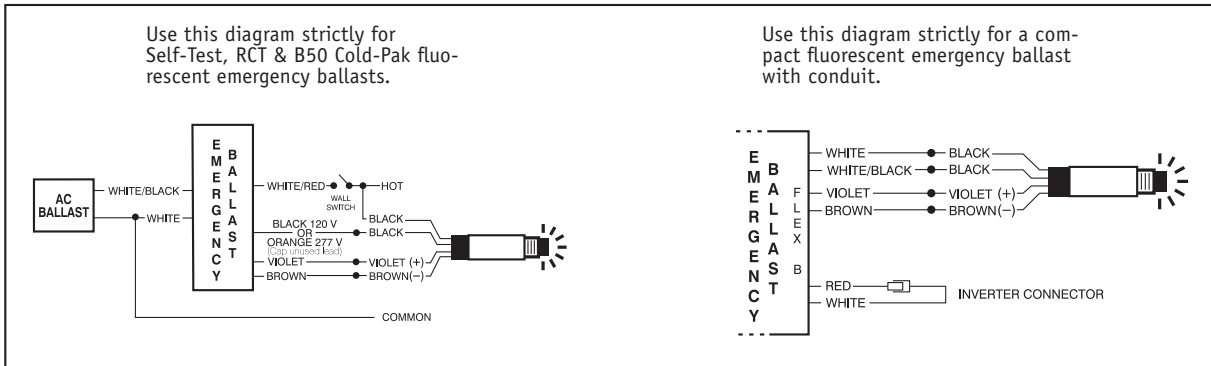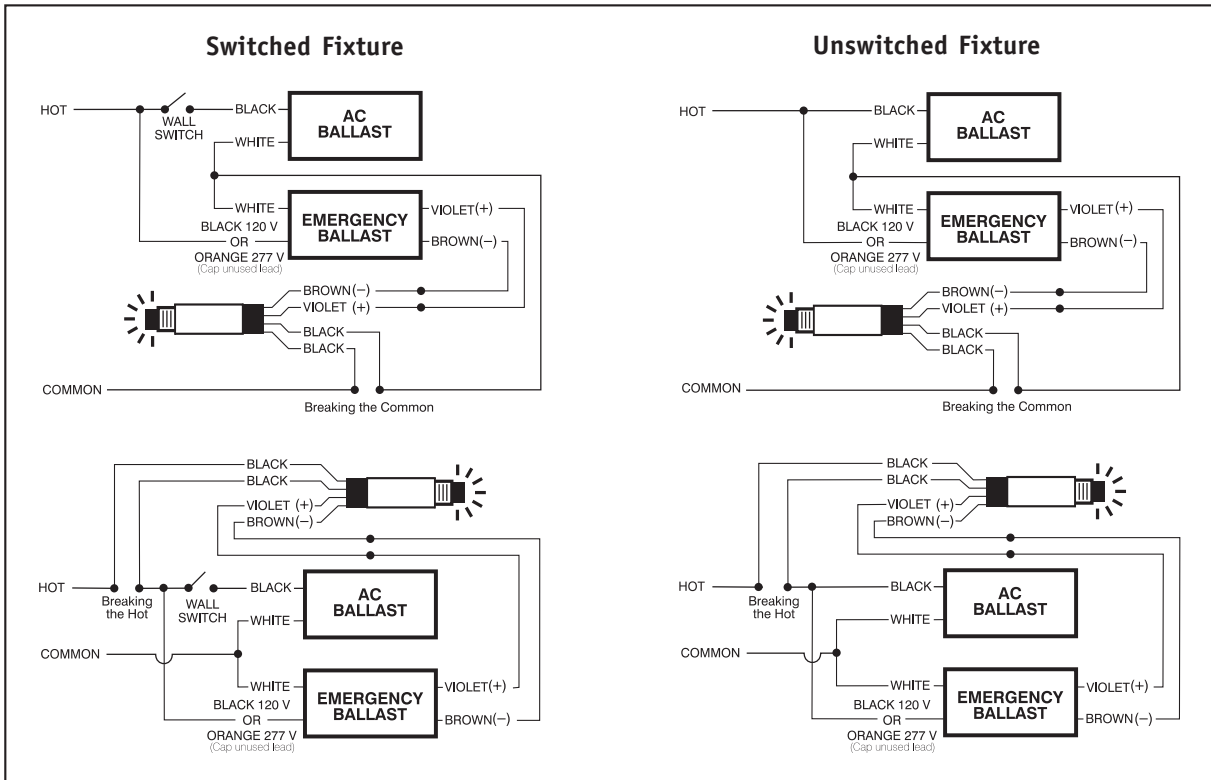
If wired correctly, the ITS indicator light should be ON when AC power is supplied to the fixture, indicating that the emergency ballast battery is charging. After installing, mark with the "PUSH TO TEST" and "CHARGING INDICATOR LIGHT" labels.

bodine ®

WHRCT Remote Control Transmitter

0.6 in.   1.6 in.

30 SEC

90 MIN

RESET

4.9 in.

bodine
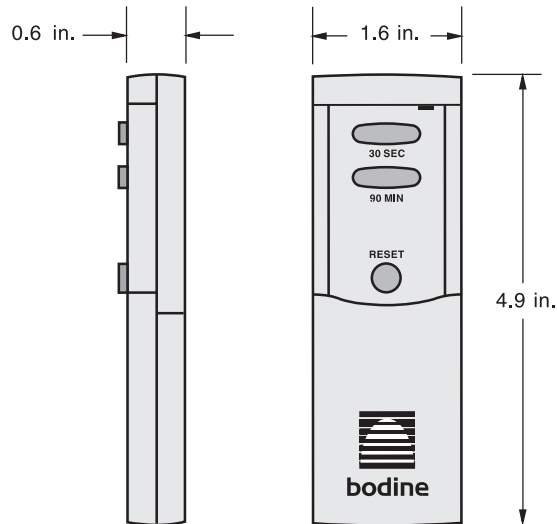
Model No.

> WHRCT
> Item # PRT00022

Description

> Remote Control Transmitter

Comments/Application

> For use with an RCT emergency ballast or a
  CheckMate remote controlled testing unit

> Two AAA-size batteries included

> See users manual for effective operating range

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

Keyed Test Switch Panel Mount Assembly

Panel
Lock Tab
Key Tab
Legend
Locking Collar
59mm
(2.32 in.)

Top
Keyway
3.2mm
(0.13 in.)
Panel
24.2mm
(0.95 in.)
22.5mm
(0.89 in.)
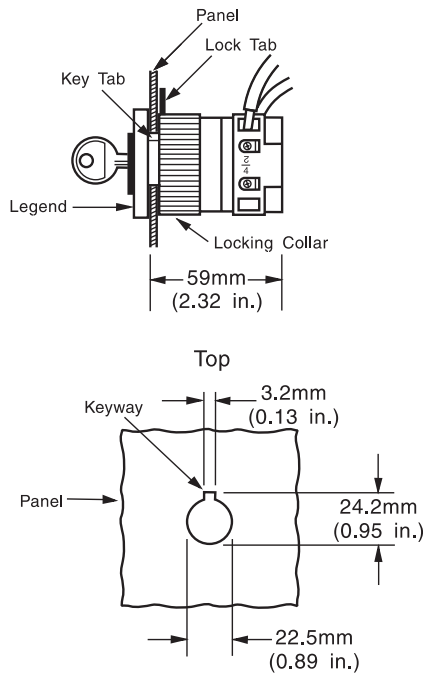
Model No.

> KTS-PM
> Item # PRT00023

Description

> Keyed Test Switch for panel mount installation

Comments/Application

> For simultaneous testing of multiple emergency ballasts

> Comes fully assembled and ready to mount onto service panel or other enclosure

> Douple-pole switch; each contact rated 20 A, 300 VAC

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

A Division Of Philips Electronics North America Corporation

Keyed Test Switch Junction Box Assembly

Top Wall Mount Screw

Wall

Conduit & Fitting (not included)

Top

Cover Screw

Legend

Box

KTS

Cover

Cover Screw

Bottom Wall Mount Screw

Top

Back Of Box

PG16(1/2 in trade-side knockout)

90mm (3.54 in.)

100mm (3.94 in.)

2X PG16 (Knockout)

*Note: The wall mounting screws are not provided

29mm (1.14 in.)

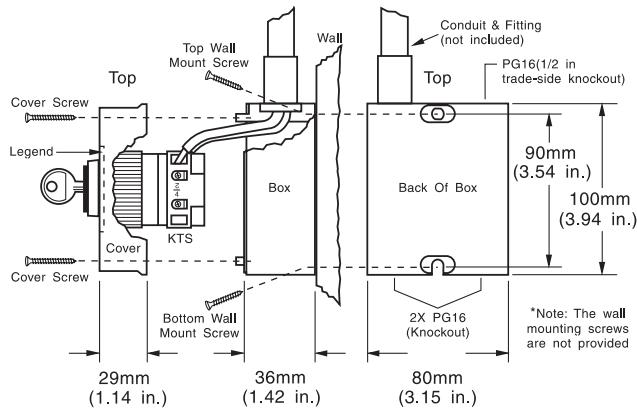36mm (1.42 in.)

80mm (3.15 in.)

Model No.

> KTS-JB
> Item # PRT00024

Description

> Keyed Test Switch with insulated junction box

Comments/Application

> For simultaneous testing of multiple emergency ballasts

> Comes fully assembled and ready to surface mount

> Insulated box rating: NEMA 3R

> Double-pole switch; each contact rated 20 A, 300 VAC

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine ®

Keyed Test Switch Wall Plate Assembly

Double gang
switch plate

117mm
(4.6 in.)

46mm
(1.82 in.)

Legend

bodine ON TEST

EMERGENCY LIGHTING

83.4mm
(3.28 in.)

116mm
(4.55 in.)

Keyed Test Switch

4 Screws Total
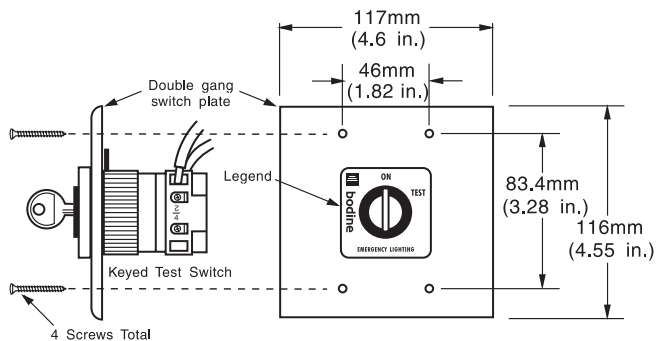
Model No.

> KTS-PL
> Item # PRT00025

Description

> Keyed Test Switch on double-gang wall plate

Comments/Application

> For simultaneous testing of multiple emergency ballasts

> Comes fully assembled and ready to mount into a standard double-gang switch box (not supplied)

> Double-pole switch; each contact rated 20 A, 300 VAC

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine®

KTS Keyed Test Switch

**Keyed test switch for testing multiple emergency ballasts**

INSTALLATION INSTRUCTIONS

OPTIONS

KTS-PL	*Keyed test switch* with legend and double gang switch *plate*
KTS-JB	*Keyed test switch* with legend and insulated *junction box*
KTS-PM	*Keyed test switch* with legend for *panel mount*

Typical Application

Figure 1. Typical installation of the *keyed test switch* (**KTS**) for testing multiple emergency ballasts simultaneously.
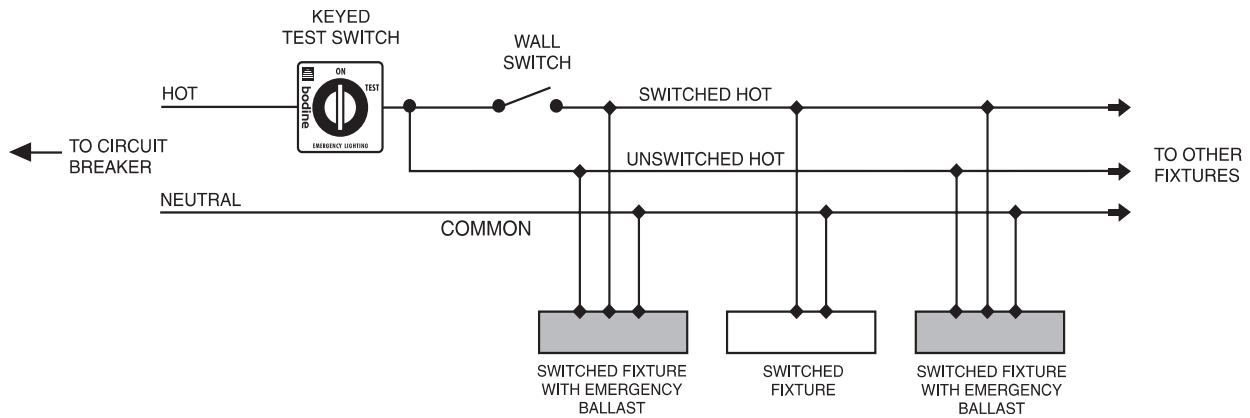
All fixtures in Figure 1 are controlled with a wall switch. The fixtures containing emergency ballasts must also have an unswitched hot obtained ahead of the wall switch and down from the **KTS** as shown in Figure 1.

The UL Listed **KTS** is a key operated double pole switch that is used to control two separate emergency lighting circuits. Terminals 1 & 2 constitute one pole of the switch and terminals 3 & 4 the other pole. See details on page 2 in Figure 2.

Each of the contacts is rated at 20A and 300 VAC. The sum of the currents supplied to all the fixtures in the circuit should not exceed this switch rating. Make sure that all connections are in accordance with the National Electrical Code and any local regulations.

Operation Of The Keyed Test Switch (KTS)

1. When the **KTS** is in the "**ON**" (or closed) position, all fixtures in the circuit will operate normally.
   a. If AC power is present and the wall switch is closed, normal lighting would be observed.
   b. If AC power is lost, then emergency lighting would be observed.
2. When the **KTS** is in the "**TEST**" (or opened) position, the **KTS** will break power to all AC ballasts and emergency ballasts in the circuit. Only fixtures containing emergency ballast would illuminate.

Figure 2. Schematic of switch and back of switch showing connected wires for two circuit operation.
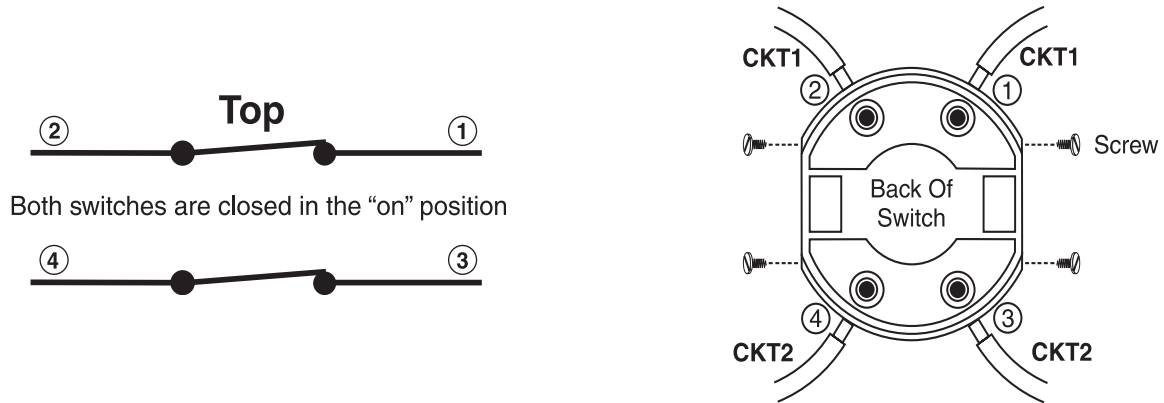
Double Gang Switch Plate Option (KTS-PL)

The **KTS-PL** comes fully assembled and ready to mount onto a standard double gang switch box as shown in Figure 3. To install, connect wires from the switch box to the terminals of the **KTS** in accordance with these instructions (See Figures 1 & 2 and paragraphs 1 & 2). Make sure the ratings of the switch(es) are not exceeded and all connections are in accordance with the National Electrical Code and any local regulations. Finally, attach the **KTS-PL** to the standard double gang switch box with the four screws provided.

**Figure 3. KTS-PL** *keyed test switch* with legend and double gang switch plate.
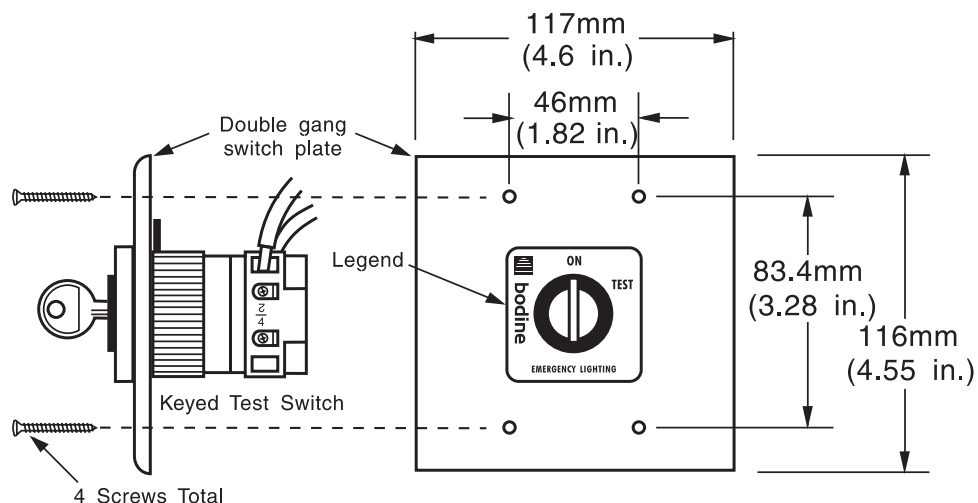
Insulated Junction Box Option (KTS-JB)

The **KTS-JB** comes fully assembled and ready to surface mount as shown in Figure 4. The insulated junction box has a NEMA 3R rating.

To install:
1. Remove the two cover screws and set aside the integral **KTS** and cover;
2. With two appropriate wall mounting screws (not provided), mount the box portion of the enclosure onto the wall and attach the appropriate conduit and fittings (not provided);
3. Pull the appropriate number of wires and connect to the terminals of the **KTS** in accordance with these instructions (See Figures 1 & 2 and paragraphs 1 & 2). Make sure the ratings of the switch(es) are not exceeded and that all connections are in accordance with the National Electrical Code and any local regulations;
4. Re-attach the cover and wired **KTS** to the mounted box with the two cover screws provided.

Figure 4. KTS-JB keyed test switch with legend and insulated junction box.
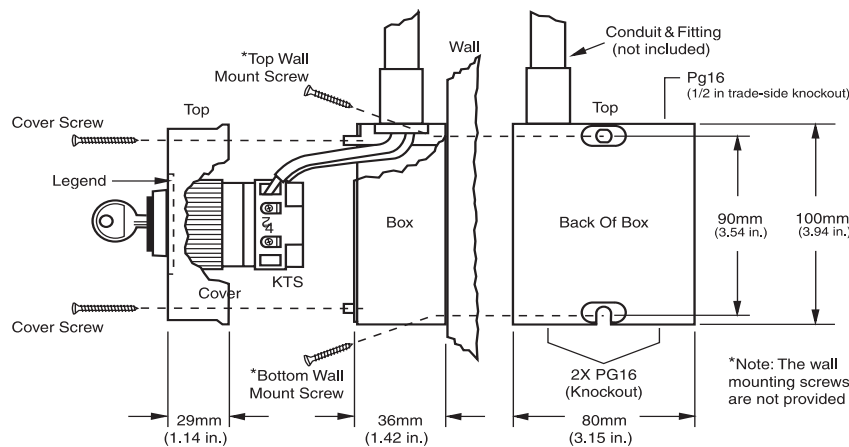
Panel Mount Option (KTS-PM)

Before installing the **KTS-PM,** a hole in the panel must be prepared in accordance with dimensions shown in Figure 5. Note that a slot or keyway must be cut at the top of the hole.
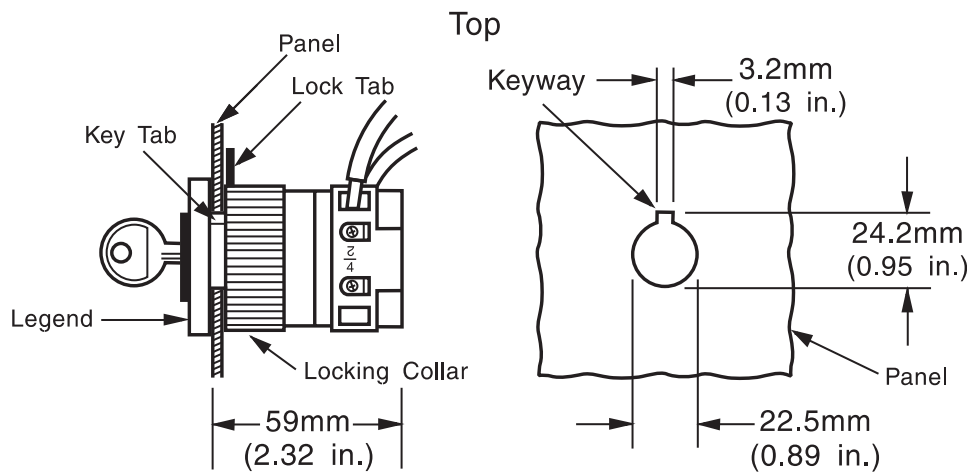
To disassemble the **KTS-PM** (Refer to Figure 6 while reading these instructions):
1. The locking tab must be rotated (counter-clockwise as viewed from the back of the switch) to the unlock position. Note that the locking tab can be rotated by gripping and rotating the locking collar.
2. The switch assembly must then be detached from the lock assembly and nut by firmly pulling them apart.
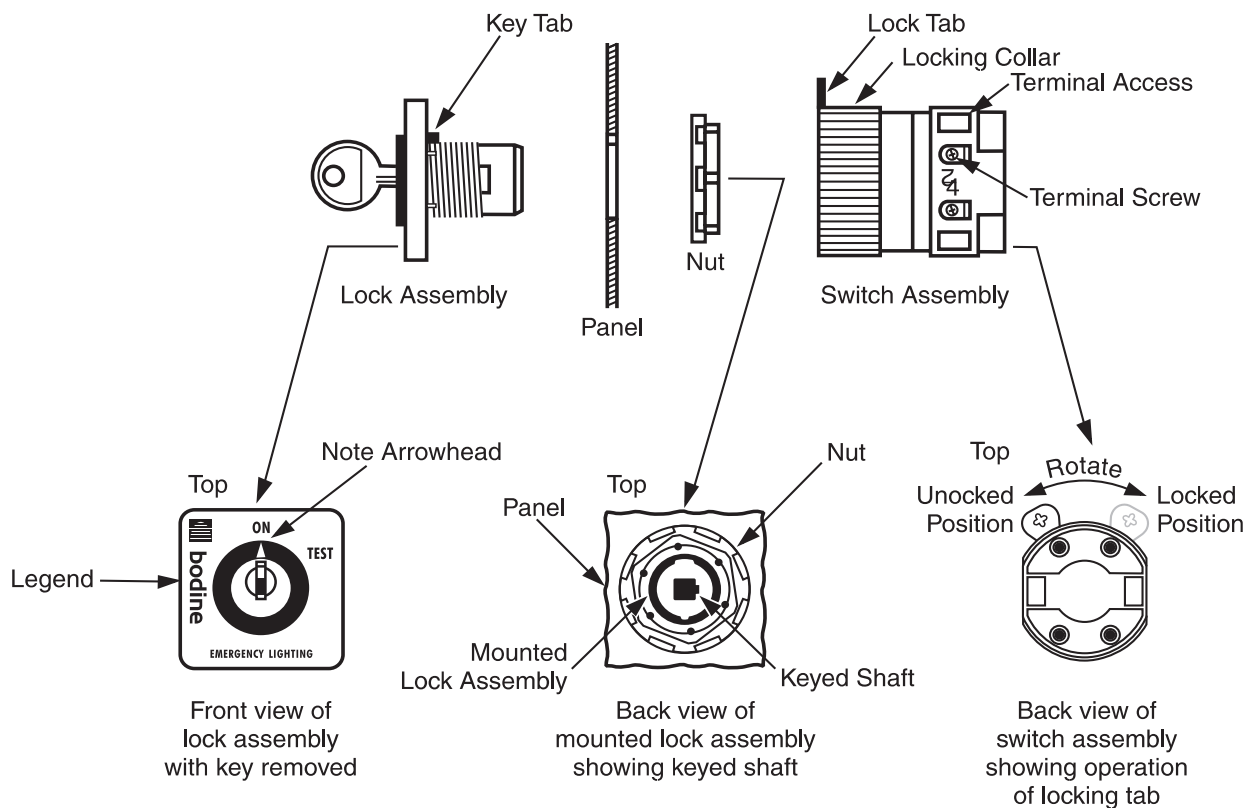3. Then remove the nut from the lock assembly.

To assemble the **KTS-PM** onto the panel (Refer to Figure 6 while reading these instructions):
1. Using the key, return the lock to the "ON" position and remove the key from the lock. This will properly align and lock the keyed shaft of the lock assembly.
2. Align the key tab of the lock assembly with the keyway in the panel and insert the lock assembly through the prepared hole in the panel.
3. Secure the lock assembly to the panel with the nut.
4. Attach the switch assembly onto the lock assembly being careful to align the keyed receptacle of the switch assembly to that of the keyed shaft of the lock assembly.
5. After properly seating the switch assembly to the lock assembly, secure or lock them together by rotating the locking tab in the clockwise direction approximately 60°. Note that the locking tab can be rotated by gripping and rotating the locking collar.
6. Re-insert the key into the lock and check for proper operation.
7. Insert two or four wires into the switch terminals as required by the application (one or two circuits) and secure each wire with the appropriate screw as shown in Figure 2.
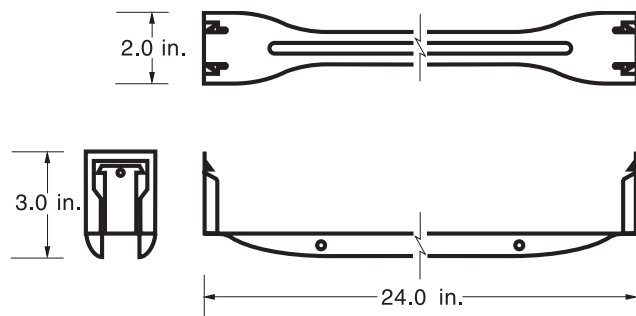
Figure 5. KTS-PM mounted on panel and dimensions for hole in panel.

Top

Panel
Lock Tab
Key Tab
Legend
Locking Collar
59mm
(2.32 in.)

Keyway
3.2mm
(0.13 in.)
24.2mm
(0.95 in.)
Panel
22.5mm
(0.89 in.)

Figure 6. Exploded view of **KTS-PM** showing detailed views.

Key Tab
Lock Tab
Locking Collar
Terminal Access
Terminal Screw
Nut
Lock Assembly
Panel
Switch Assembly

Note Arrowhead
Top
ON
TEST
bodine
Legend
EMERGENCY LIGHTING
Front view of
lock assembly
with key removed

Top
Panel
Nut
Mounted
Lock Assembly
Keyed Shaft
Back view of
mounted lock assembly
showing keyed shaft

Top
Rotate
Unlocked
Position
Locked
Position
Back view of
switch assembly
showing operation
of locking tab

bodine ®

T-Bar Mounting Bracket Assembly

2.0 in.

3.0 in.

24.0 in.

Model No.

> TBAR-MB
> Item # PRT00018

Description

> T-Bar mounting bracket for remote, drop ceiling installation

Comments/Application

> Can be used with emergency ballasts supplied with conduit

> Drop wires not included

> Extension brackets increase height dimension to 4.5″

This Product Is For Use With Bodine Products Only

Lighting Technologies

bodine®

T-Bar Mounting Bracket

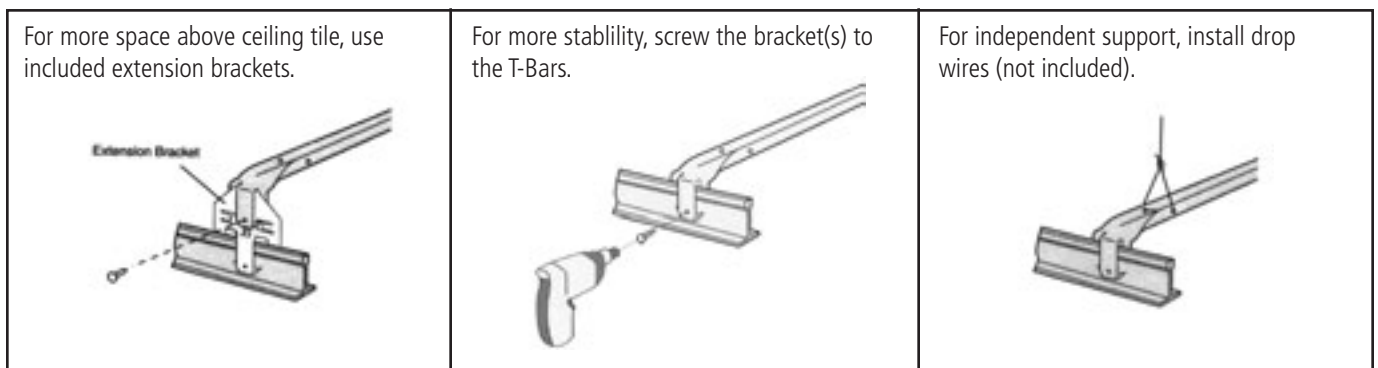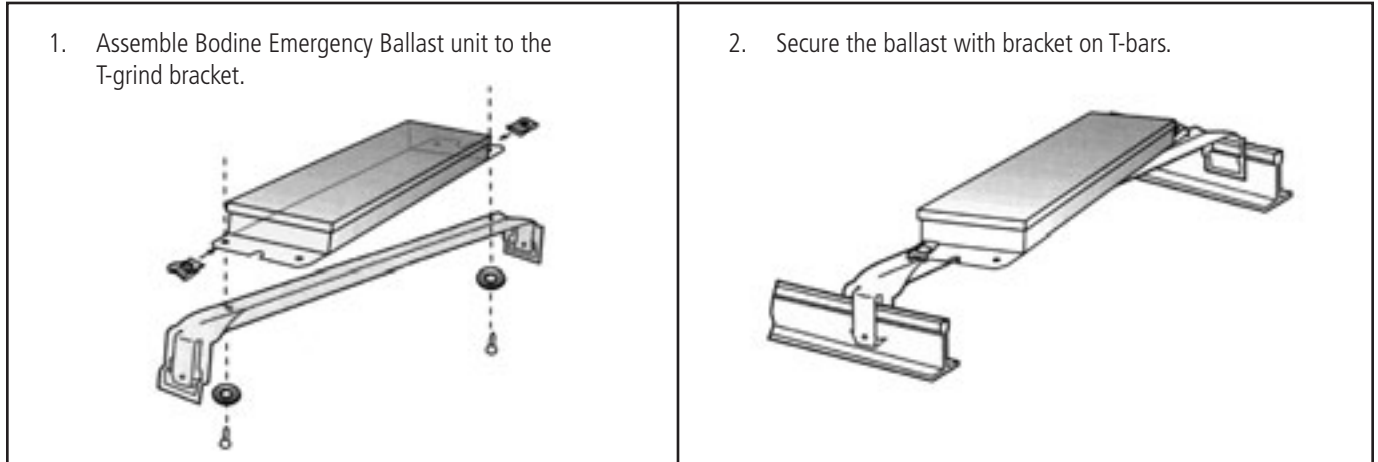For Next To Fixture, Drop Ceiling Emergency Ballast Installation

INSTALLATION INSTRUCTIONS

WARNING: THIS BRACKET IS INTENDED FOR INDOOR USE IN NON-CORROSIVE ENVIRONMENTS. IT MUST BE USED ONLY AS ILLUSTRATED. MISUSE OR MISAPPLICATION MAY CAUSE FAILURE RESULTING IN PROPERTY DAMAGE OR BODILY INJURY.

Safety Instructions: All safety regulations required by the job site must be observed. Special attention should be given to the following instructions.

While working on site:

> Observe all federal and local safety regulations.
> Wear a hard hat.
> Wear safety glasses with side sheilds.
> Wear gloves to avoid splinters and cuts.
> When working above ground level, be sure the structure will support your weight.
> Be aware of people working above and below.
> Perform electrical connections per emergency ballast instructions.

1. Assemble Bodine Emergency Ballast unit to the T-grind bracket.

2. Secure the ballast with bracket on T-bars.

For more space above ceiling tile, use included extension brackets.

For more stablility, screw the bracket(s) to the T-Bars.

For independent support, install drop wires (not included).