c3controls®

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FIGURE 1
DIRECT MOUNTING BASE

52.2 mm (2-1/16")
31.2 mm (1-1/4")
Ø52.7 mm (2-1/16)

FIGURE 2
SHORT MOUNTING BASE

87.5 mm (3-7/16")
Ø70.0 mm (2-3/4")

FIGURE 3
TALL MOUNTING BASE

138.5 mm (5-7/16")
Ø70.0 mm (2-3/4")

FIGURE 4
LIGHT MODULE

Ø52.5 mm (2-1/16")
68.0 mm (2-11/16")

FIGURE 5
SOUND MODULE

Ø52.5 mm (2-1/16")
72.7 mm (2-7/8")

FIGURE 6
WTL CAP

Ø52.5 mm (2-1/16")
16.0 mm (5/8")

FIGURE 7
DIRECT BASE
MOUNTING HOLE PATTERN

Ø25.4 mm (1")

FIGURE 8
SHORT/TALL BASE
MOUNTING HOLE PATTERN

38.1 mm (1-1/2")
Ø17.5 mm (11/16")
38.1 mm (1-1/2")
Ø5.6 mm (7/32")

(2) THREAD-FORMING SCREWS (USED ON ALL BASES)

(4) M5 x 0.8 FULLY THREADED MACHINE SCREWS (USED ON SHORT/TALL BASES)

(4) M5 WASHERS (USED ON SHORT/TALL BASES)

(4) M5 x 0.8 NUTS (USED ON SHORT/TALL BASES)

(1) M25 x 1.5 PLASTIC FLANGED HEX NUT (USED ON DIRECT BASE ONLY)

FIGURE 9
VERTICAL MOUNT
BASE ACCESSORY
FRONT VIEW

70.0 mm (2-3/4")
52.5 mm (2-1/16")
46.0 mm (1-13/16")

FIGURE 10
VERTICAL MOUNT
BASE ACCESSORY
SIDE VIEW

73.2 mm (2-7/8")
52.5 mm (2-1/16")

FIGURE 11
VERTICAL MOUNT
BASE ACCESSORY
MOUNTING HOLE PATTERN

Ø5.6 mm (7/32")
Ø19.1 mm (3/4")
3.7 mm (9/64")
46.0 mm (1-13/16")

FIGURE 12
HARDWARE FOR SHORT/TALL/DIRECT
BASE MOUNTS

FIGURE 13
HARDWARE FOR VERTICAL
MOUNT BASE ACCESSORY

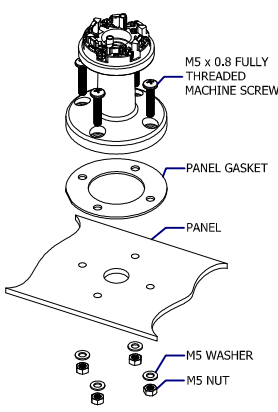(2) M5 x 0.8 FULLY THREADED MACHINE SCREWS

(2) M5 WASHERS

(2) M5 x 0.8 NUTS

Required Tools:

- One (1) #2 Phillips head screw driver
- One (1) 8 mm (5/16") wrench (for short/tall base mounting only)
- One (1) 32 mm (or adjustable) wrench (for direct base mounting only)

Step 1A

M5 x 0.8 FULLY THREADED MACHINE SCREW

PANEL GASKET

PANEL

M5 WASHER
M5 NUT

Mounting the Base Assembly
(Short/Tall Base)

A) Drill mounting hole pattern per Figure 8.
B) Install the panel gasket and then the base assembly. Secure with four (4) M5 x 0.8 mounting screws, washers, and nuts.

Step 1B

PANEL GASKET

PANEL

M25 x 1.5 PLASTIC FLANGED HEX NUT
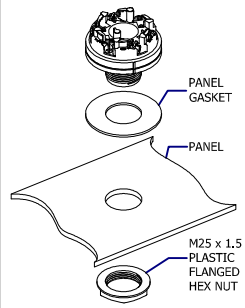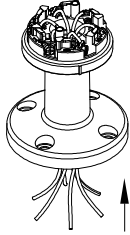
Mounting the Base Assembly
(Direct Base)

A) Drill mounting hole per Figure 7.
B) Install the panel gasket and then the base assembly. Secure with one (1) M25 x 1.5 flanged hex nut and tighten to 1.1-2.3 Nm. (10-20 lb-in).


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Installation Instructions
& Dimensional Drawings

series **WTL**

50mm World Tower Lights (Ser B)

Electrical Installation

Step 2

A) Insert the wires through the center hole in the base.
B) The terminals are numbered and correspond to the module position. The terminal numbers relate as follows, 0 (zero) is the common or negative as per the supply voltage AC or DC, 1 is module position 1, 2 is module position 2, 3 is module position 3, 4 is module position 4, and 5 is module position 5.
C) Install the wires into the terminations for the tower light and tighten the terminal screws to 0.8-1.1 Nm. (7-10 lb-in)
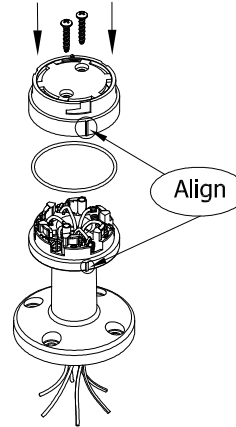
Step 3

Align

Assembling Terminal Cover
(Occurs After Electrical Installation)

A) Place the o-ring gasket and terminal cover over the terminations aligning the indicating lines as shown. Install the two (2) thread forming assembly screws (included) and tighten to 1.4 Nm. (12 lb-in)

Step 4

Align

Assembling the Tower Light
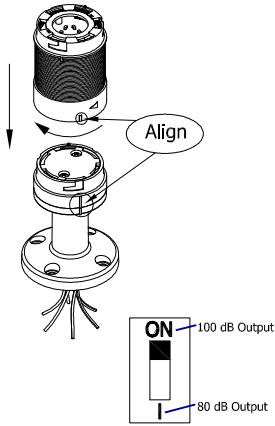
A) Install module(s) by aligning the indicator line on the module with the indicator line on the terminal cover (or with the line on the top of the lower module for positions 2 through 5) and rotate clockwise 25° to seal.
B) Repeat for additional modules.

Note: If using a sound module, it can only be mounted in the last position (top position). Before mounting the sound module, use the switch located on the PCBA inside the module to select the desired dB rating. ("I"=80 dB, "ON"=100 dB [Default Setting])

ON — 100 dB Output
I — 80 dB Output
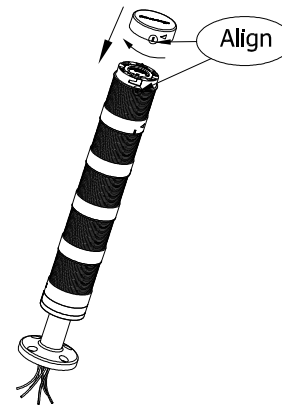
Step 5

Align

Assembling the WTL Cap
(Not applicable if using a Sound Module)

A) Install the WTL cap by aligning the indicator line on the cap with the indicator line on the top of the light module as shown. Mount the cap onto the light module and rotate clockwise 25° to seal.
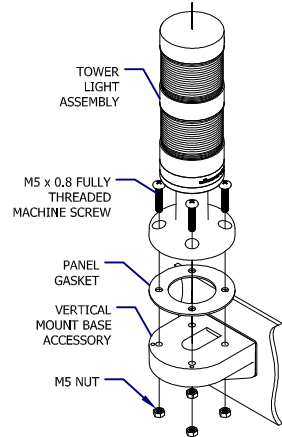
Vertical Mount Base Accessory Step 1
(Optional)

Mounting the Vertical Mount Base Accessory (WTL-50BPV)

M5 NUT
M5 WASHER
PANEL
VERTICAL BASE GASKET
M5 x 0.8 FULLY THREADED MACHINE SCREW
VERTICAL MOUNT BASE ACCESSORY
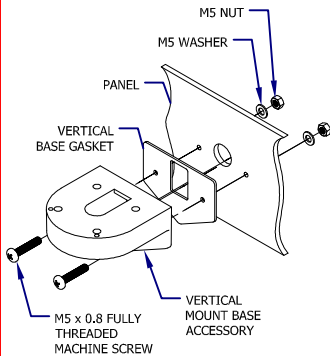
A) Drill mounting hole pattern per Figure 11.
B) Install the panel gasket and then the vertical mount base accessory. Secure with two (2) M5 x 0.8 mounting screws, washers, and nuts using a #2 Phillips head screw driver and an 8 mm wrench. Tighten to 12 lb-in.

Vertical Mount Base Accessory Step 2
(Optional)

TOWER LIGHT ASSEMBLY
M5 x 0.8 FULLY THREADED MACHINE SCREW
PANEL GASKET
VERTICAL MOUNT BASE ACCESSORY
M5 NUT

Assembling the WTL to the Vertical Mount Base Accessory

A) Install panel gasket and then the WTL assembly to the vertical mount base accessory. Secure with four (4) M5 x 0.8 mounting screws and nuts using a #2 Phillips screw driver. Tighten to 12 lb-in.

Important Notes:

ENVIRONMENTAL RATINGS
- Suitable for use on flat surfaces of Type 1, 2, 3, 3R, 4/4X, 12, 13
- IP65 (As per IEC 60529)

TEMPERATURE RANGE
- Operating Temperature: -40 to +60°C (-40 to +140°F)
- Storage Temperature: -40 to +70°C (-40 to +158°F)

TERMINAL CAPACITY
- M8.5 x 0.6 Steel-plated terminal screws with self-lifting captive wire clamps
- Recommended wire size: 0.33 mm² ~ 1.3 mm² (#22 ~ #16 AWG) (Copper wire only - stranded)
- One wire permitted per termination
- Recommended wire strip length: 9 - 11 mm (3/8 in - 7/16 in)
- Recommended terminal tightening torque: 0.8 - 1.1 Nm (7 - 10 lb-in)

GENERAL INFORMATION
- The sound module is gray and the cap of the sound module cannot be removed.
- The sound module can only be mounted in the last position (top position).
- Recommended terminal cover assembly screw torque: 1.4 Nm (12 lb-in)
- Recommended direct base M25 x 1.5 flanged hex nut torque: 1.1 - 2.3 Nm (10 - 20 lb-in)
- Recommended mounting screw torque: 12 lb-in

⚠ **WARNING**
- Disconnect power before proceeding with any work on this equipment.
- Installation and maintenance by technical personnel only.
- Installation of c3controls product must be in accordance with the NEC (U.S. National Electrical Code) regulations or local codes/standards per your application. Any violation of these safety requirements could result in a personal injury and/or result in damage to the equipment.

⚠ **AVERTISSEMENT**
- Débranchez le Pouvoir(la Puissance) avant la suite de n'importe quel travail sur cet équipement.
- nstallation et maintien par personnel technique seulement.
- L'installation de produit c3controls doit être conformément au NEC (le Code Électrique national américain) des règlements ou des codes/normes locaux par votre demande. N'importe quelle violation de ces exigences de sécurité pourrait aboutir à une blessure personnelle et-ou aboutir aux dégâts à l'équipement.

Product installation instructions and dimensional drawings may be downloaded from our website, www.c3controls.com.

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CONFORMITY TO STANDARDS
UL 508
IEC 60947-1 & 60947-5-1

CERTIFICATIONS
UL File #: E68568 (Guide NKCR, NKCR7)
CE Marked (per EU Low Voltage Directive 2006/95/EC & RoHS Directive 2011/65/EU)

WTL REV 5

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