HOWARD INDUSTRIES INTRODUCES

PEDESTRIAN CROSSING & PEDESTRIAN LIGHT PATH SAFETY SYSTEMS

PATENT PENDING

5 Year WARRANTY
Pedestrian Crossing Safety System

PCSS Overview Features

1. Reflective vinyl caution graphic
2. Flashing LED units
3. Flashing pedestrian symbol
4. Outdoor black-out LED direct-view, amber-wide-angle flashing pedestrian symbol
5. 7 inch LED illuminated “XING” copy
6. Adjustable aluminum base
7. Louvered panel disperses ultra-bright, pure-white LED illuminated light beam that projects over 16 feet
8. Side C — Optional branding/wayfinding/advertising graphics application area (optional control placement)
9. Standard unit 120/277 Vac, less than 2 AMPS
10. Integral push-button activation with wireless communication bollard mounted motion sensor activation optional
Pedestrian Crossing Safety System

**Interior Structure**

1. **Louver Retainer Left**
   - 4'-9" x 7" x .100"

2. **Louver Pocket**
   - 6'-6" x 2'-1 1/8" x .100"

3. **Louver Retainer Right**
   - 4'-9" x 7" x .100"

4. **Flood LED Panel**
   - 71" x 11-5/8" x .050"

5. **Square Post**
   - 84" x 4" x 4"

6. **Aluminum Mounting**
   - 48" x 2.88"

7. **Corner Key Supports**
   - 1'-1/2" x 1'-1/2" x 15-1/2"

8. **Thick Top Baseplate**
   - 14" x 3/8"

9. **Thick Bottom Baseplate (Optional)**
   - 4'-9" x 7" x .100"

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**PCSS Interior Structure**

1. (1) Louver Retainer Left
   - 4'-9" x 7" x .100"

2. (1) Louver Pocket
   - 6'-6" x 2'-1 1/8" x .100"

3. (1) Louver Retainer Right
   - 4'-9" x 7" x .100"

4. (1) Flood LED Retainer
   - 71" x 11-5/8" x .050"

5. (1) Square Post
   - 84" x 4" x 4"

6. (1) Aluminum Mounting
   - 48" x 2.88"

7. (3) Corner Key Supports
   - 1'-1/2" x 1'-1/2" x 15-1/2"

8. (1) Thick Top Baseplate
   - 14" x 3/8"

9. (1) Thick Bottom Baseplate (Optional)
   - 4'-9" x 7" x .100"
Pedestrian Crossing Safety System

Electrical

PCSS
Electrical Components

1. CB-PX R1
   2017-07-11 Control Board with Wireless Capability

2. (2) 100 Watt Hanley Power Supply
   Part #H100W-PPS5

3. (1) 60 Watt MaxBrite Power Supply
   Part #MDS12760-12

4. (1) 20 Watt MaxBrite Power Supply
   Part #SLS27720-12

5. (6) Surface Mount Super LED
   Light Heads
   Part #MCRNSA *See page 5

6. NEMA 3 Electrical Enclosure
   10" x 10" x 4"
   Model #RSC101004RC *See page 5
Pedestrian Crossing Safety System
Pedestrian Crossing Safety System
Base Plate & Foundation Detail

Base Plate Detail

14" Dia. x .375" Aluminum Base Plate

1/2"-13 x 24" Long J Bolt or Threaded Rod with Nuts and Washers

4" Square Aluminum Post

1/4" Fillet Weld Top and Bottom

1/2"-13 x 24" Long J Bolt or Threaded Rod with Nuts and Washers

Concrete Foundation by Others

Scale: 1"=6"
Pedestrian Crossing Safety System
Optional - Bollard Activation Detail

Conduit Details
by others

Dual Beam Directional Pedestrian Sensors

(Conduit B)
12 Vdc from Pedestrian Light Path Unit
Signal Wires from Sensor Bollards to Pedestrian Light Path Unit

(Conduit C)
120-277 Vac in from External Power Source
24 Vdc from Pedestrian Crossing Unit to Bollards/Signal Wires from Sensor Bollards to Light Path Unit

(Conduit A)
120-277 Vac in from External Power Source
**Light Path Safety System Foundation (by others)**

**LPSS Overview Features**

*Easy to operate: no programming required – install with conventional tools.*

1. Durable-weather, rust-resistant aluminum body construction with high-performance, 100%-acrylic-polyurethane finish

2. Low-power consumption
   (1 amp @ 120v supply or .5 amp @ 277v supply)

3. Advanced louver design directs lighting, preventing blinding of drivers and pedestrians – Lexan® cover for debris-free louvers

4. Long-life, high-intensity LED lighting technology

5. Modular component construction – easy maintenance

6. Integral push button activation with wireless communication. Optional – Bollard mounted directional-motion-sensor activation

7. Louvered panel disperses ultra-bright, pure-white LED illuminated light beam that projects over 16 feet

8. Custom graphic area
**LPSS Exploded View**

A. Front lens retainer panel
B. Custom graphic area
C. .125” polycarbonate front lens
D. .050” aluminum custom routed louver retainer panel assembly with high-intensity-LED lighting modules
E. Louver retainer
F. Electronic component encloser
G. Wireless communication module
H. Power control module
I. Low-voltage terminal block
J. P20 extruded aluminum frame with welded baseplate
K. Power connection box with 20 Amp disconnect switch
L-M. 2-piece custom aluminum extruded baseplate cover
N. 120-277 vac to 24Vdc power supply
O. .100” aluminum rear access panel
P. .050” rear lighting deflector with 2 low intensity accent LEDs
Q. .100” aluminum rear lighting access panel
R. .125” polycarbonate lens
S. Activation push button
T. Custom push to walk graphic
Light Path Safety System
Optional - Bollard Activation Detail

Conduit Details
by others

Dual Beam Directional Pedestrian Sensors

(Conduit B)
12 Vdc from Pedestrian Light Path Unit
Signal Wires from Sensor Bollards to Pedestrian Light Path Unit

(Conduit A)
120-277 Vac in from External Power Source

(Conduit C)
120-277 Vac in from External Power Source
24 Vdc from Pedestrian Crossing Unit to Bollards/Signal Wires from Sensor Bollards to Light Path Unit
Light Path Safety System
Bollards with Motion Sensor Activation

LPSS Bollard Foundation Details

A 2 1/4" x 10" flat cap
B Protective all-weather hood
C Dual-beam-pedestrian sensors
D 2 1/4" x 10" x 3/8" Aluminum bollard post with welded baseplate
E 8" x 8" Custom decorative baseplate cover (shown slid up on post for easy anchor access)

36" Depth to extend below location frost line to be able to maintain proper alignment of sensors

12" Diameter
Light Path Safety System

Lighting Output Details

Lighting Output Details

Ft Candles

Readings 12" Above Grade

Distance From Light Path

11.5' 32.5' 53.5' 74.5' 95.5' 116.5' 137.5' 158.5' 179.5' 200.5' 221.5' 242.5' 263.5'

~6.5 Lux

~8.8 Lux

~21.6 Lux

~4.8 Lux

Center of Projector

1'

6'

21'

3.5'

Light Path Safety System
Project: Light Distribution
Name: Mike Eckels
Date: 5/22/19