GPL
Geometrically Programmed Louvers

The Pelco GPL is a precisely aimed and controlled traffic signal louvering system which is designed for quick easy installation. Drivers see a full circle of bright projected light when they are within the preset field of vision. The GPL is available without a visor or with a full circle visor that easily replaces the existing visor on most signals.

GPL, Geometrically Programmed Louver, 12” w/o Visor

GL-1001 - Cut-Off - PNC
7 = 7°
8 = 8°
9 = 9°
11 = 11°
13 = 13°
15 = 15°
23.5 = 23.5°
42 = 42°

GPL, Geometrically Programmed Louver, 12” w/ Visor

GL-1010 - Cut-Off - Mounting Clips - Coating
07 = 7°
08 = 8°
09 = 9°
11 = 11°
13 = 13°
15 = 15°
23.5 = 23.5°
42 = 42°

Note: Shown with universal clip option.

Note: 1. All assemblies are supplied standard with stainless steel fasteners.
2. Universal Clips fit Eagle, Econolite, TCT, Mark IV, and McCain signals.
3. See Reference Section for available paint colors.
The Pelco GPL is a precisely aimed and controlled traffic signal louvering system which is designed for quick easy installation. Drivers see a full circle of bright projected light when they are within the preset field of vision. The GPL is available without a visor or with a full circle visor that easily replaces the existing visor on most signals.

**GPL View Angle Adjustments**

Baffles A thru G
(Baffles shown in factory set positions for 8° View Angle)

<table>
<thead>
<tr>
<th>View Angle</th>
<th>Baffle Position for GPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>7°</td>
<td>Move baffle “G” to #11 position</td>
</tr>
<tr>
<td>8°</td>
<td>All baffles in factory set position #1, 2, 3, 4, 5, 7, &amp; 10</td>
</tr>
<tr>
<td>9°</td>
<td>Move baffle “G” to #9 position</td>
</tr>
<tr>
<td>11°</td>
<td>Move baffle “G” to #8 position</td>
</tr>
<tr>
<td>13°</td>
<td>Omit baffle “G” completely</td>
</tr>
<tr>
<td>15°</td>
<td>Omit baffle “G” completely &amp; move baffle “F” to #6 position</td>
</tr>
<tr>
<td>23½°</td>
<td>Omit baffle “F” &amp; “G” completely</td>
</tr>
<tr>
<td>42°</td>
<td>Omit baffle “E”, “F” &amp; “G” completely</td>
</tr>
</tbody>
</table>

**Distance (Feet) vs. Viewing Width**

<table>
<thead>
<tr>
<th>View Angle (Degrees)</th>
<th>40'</th>
<th>50'</th>
<th>60'</th>
<th>70'</th>
<th>80'</th>
<th>90'</th>
<th>100'</th>
<th>120'</th>
</tr>
</thead>
<tbody>
<tr>
<td>7°</td>
<td>4.9</td>
<td>6.1</td>
<td>7.3</td>
<td>8.6</td>
<td>9.8</td>
<td>11.0</td>
<td>12.2</td>
<td>14.7</td>
</tr>
<tr>
<td>8°</td>
<td>5.6</td>
<td>7.0</td>
<td>8.4</td>
<td>9.8</td>
<td>11.2</td>
<td>12.6</td>
<td>14.0</td>
<td>16.8</td>
</tr>
<tr>
<td>9°</td>
<td>6.3</td>
<td>7.9</td>
<td>9.4</td>
<td>11.0</td>
<td>12.6</td>
<td>14.2</td>
<td>15.7</td>
<td>18.9</td>
</tr>
<tr>
<td>11°</td>
<td>7.7</td>
<td>9.6</td>
<td>11.6</td>
<td>13.5</td>
<td>15.4</td>
<td>17.3</td>
<td>19.3</td>
<td>23.3</td>
</tr>
<tr>
<td>13°</td>
<td>9.1</td>
<td>10.5</td>
<td>13.7</td>
<td>16.0</td>
<td>18.2</td>
<td>20.5</td>
<td>22.8</td>
<td>27.3</td>
</tr>
<tr>
<td>15°</td>
<td>10.5</td>
<td>12.2</td>
<td>15.8</td>
<td>18.4</td>
<td>21.1</td>
<td>23.7</td>
<td>26.3</td>
<td>31.5</td>
</tr>
<tr>
<td>23½°</td>
<td>16.8</td>
<td>20.8</td>
<td>25.2</td>
<td>29.2</td>
<td>33.3</td>
<td>37.4</td>
<td>41.6</td>
<td>49.9</td>
</tr>
<tr>
<td>42°</td>
<td>30.7</td>
<td>38.4</td>
<td>46.1</td>
<td>53.7</td>
<td>61.4</td>
<td>69.3</td>
<td>76.8</td>
<td>92.3</td>
</tr>
</tbody>
</table>

**Viewing Angle (Degrees)**

- 7°  . . . . . . Move baffle “G” to #11 position
- 8°  . . . . . . All baffles in factory set position #1, 2, 3, 4, 5, 7, & 10
- 9°  . . . . . . Move baffle “G” to #9 position
- 11° . . . . . . Move baffle “G” to #8 position
- 13° . . . . . . Omit baffle “G” completely
- 15° . . . . . . Omit baffle “G” completely & move baffle “F” to #6 position
- 23½° . . . . . Omit baffle “F” & “G” completely
- 42° . . . . . . Omit baffle “E”, “F” & “G” completely
Aluminum Signal Visors

Full circle and tunnel signal visors are supplied with a universal clip for attachment to signal. Black inside, federal yellow or black outside.

Visor, Full Circle w/ Slots for 12” GPL w/ Universal Clips

![Visor Image](image1.png)

SM-1028-UC -

P_ _ = Paint

Visor, Full Circle w/o Slots for 12” Signal w/ Universal Clips

![Visor Image](image2.png)

SM-1031-UC -

P_ _ = Paint

Visor, Tunnel for 12” Signal w/ Universal Clips

![Visor Image](image3.png)

SM-1034-UC -

P_ _ = Paint

Universal Clip Set of 4

![Clip Image](image4.png)

SM-1040 -

P_ _ = Paint

Note: 1. All assemblies are supplied standard with stainless steel fasteners.
2. Universal Clips fit Eagle, Econolite, TCT, Mark IV, and McCain signals.
3. See Reference Section for available paint colors.
Signal Accessories

The adjustment tool makes it easy to install and adjust a GPL in an existing visor. Pelco also provides a complete installation kit.

- **GL-1008-PNC**  
  **GPL Combs, Baffle Adjustment Set of 8, Stainless**  
  Includes 7°, 8°, 9°, 11°, 13°, 15°, 23.5°, 42°

- **GL-1002-PNC**  
  **Adjustment Tool, GPL w/ Depth Gauge**

- **GL-2001-PNC**  
  **Installation Kit w/o Screw Gun**  
  Includes: adjustment tool, visor marking template & sleeve, marking pen, 1/4” & 5/16” shock cord in a small tool box.

- **GL-2002-PNC**  
  **Installation Kit w/ Screw Gun**  
  Includes: adjustment tool, visor marking template & sleeve, marking pen, 1/4” & 5/16” shock cord, cordless screw gun, battery & charger in a large tool box.
**Confirmation Lights**

Used to confirm a traffic signal is red when a car enters the intersection. Available in clear, red, or blue and various mounting applications.

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**Confirmation Light Assy w/ Globe**

<table>
<thead>
<tr>
<th>SM-0284</th>
</tr>
</thead>
<tbody>
<tr>
<td>Globe Color</td>
</tr>
<tr>
<td>CL=Clear</td>
</tr>
<tr>
<td>RD=Red</td>
</tr>
<tr>
<td>BL=Blue</td>
</tr>
</tbody>
</table>

**Confirmation Light Assy w/ Globe**

**Band Mount Astro Mini-Brac**

<table>
<thead>
<tr>
<th>SM-0286</th>
</tr>
</thead>
<tbody>
<tr>
<td>Globe Color</td>
</tr>
<tr>
<td>CL=Clear</td>
</tr>
<tr>
<td>RD=Red</td>
</tr>
<tr>
<td>BL=Blue</td>
</tr>
</tbody>
</table>

**Confirmation Light Assy w/ Globe**

**Cable Mount Astro Mini-Brac**

<table>
<thead>
<tr>
<th>SM-0321</th>
</tr>
</thead>
<tbody>
<tr>
<td>Globe Color</td>
</tr>
<tr>
<td>CL=Clear</td>
</tr>
<tr>
<td>RD=Red</td>
</tr>
<tr>
<td>BL=Blue</td>
</tr>
</tbody>
</table>

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**Typical Applications:**

- **Mast Arm Mount**
- **Side-of-Pole Mount**
- **Plumbizer Mount**

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**Note:**
1. All assemblies are supplied standard with stainless fasteners and natural aluminum coating. Stainless upgrade to include stainless steel clamp screw or stainless cable.
2. Bulbs not included with assembly. Recommended 67W or 69W 8000 hr traffic signal lamp (not to exceed 75W).
3. See Reference Section for available paint colors.
Copper Safe® Cable Retainers

Pelco’s anti-theft Cable Retainers are the best solution to help prevent copper cable theft in roadway lighting and traffic poles. Cable Retainers are available in various sizes, are easy to install, and work with Pelco’s foundation anchors or existing foundations.

SP-6224-GLV  Cable Retainer Assy, For 4” Foundation Anchor, Galvanized Steel

Note:
Works with Pelco’s PB-5364 4” Foundation Anchor or with existing foundations with a 8” to 13-1/2” bolt circle. Secures 3/16” to 1/2” diameter cables.

SP-6200-GLV  Cable Retainer Assy, For 6” Foundation Anchor, Galvanized Steel

Note:
Works with Pelco’s PB-5372 6” Foundation Anchor or with existing foundations with a 9-1/2” to 13-1/2” bolt circle. Secures 3/16” to 1/2” diameter cables.

SP-6205-GLV  Cable Retainer Assy, For 8” Foundation Anchor, Galvanized Steel

Note:
Works with Pelco’s PB-5375 8” Foundation Anchor or with existing foundations with a 11-1/2” to 17” bolt circle. Secures 3/16” to 1/2” diameter cables.

Tube Assy for 6” Cable Retainer, Galvanized Steel

SP-6358 - GLV

<table>
<thead>
<tr>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>04.5=4-1/2”</td>
</tr>
<tr>
<td>16.38=16-3/8”</td>
</tr>
</tbody>
</table>

Note: 1. All assemblies are supplied standard with stainless fasteners.
Copper Safe® Base Doors

Pelco’s anti-theft Transformer Base Doors are shatter-resistant and pull-off resistant to protect against copper theft. The doors require a special Pelco Installation Kit which includes everything required for installing multiple doors and covers.

Door Assy, Copper Safe® Theft Deterrent, Steel Fits Akron TB1-17, TB1-17 Mod, TB2-17, & TB3-17 Transformer Bases

PB-5520 - Coating
P = Paint

Door Assy, Copper Safe® Theft Deterrent, Steel Fits Akron TB1-20, TB1-20 Mod, TB2-20, & TB3-20 Transformer Bases

PB-5526 - Coating
P = Paint

Door Assy, Copper Safe® Theft Deterrent, Steel Fits Akron TB-17H Transformer Base

PB-5536 - Coating
P = Paint

Note: 1. All assemblies are supplied standard with stainless fasteners.
2. Doors require AP-5121 Kit for installation.
3. Typically powder coated P40 Silver, see Reference Section for other available paint colors.
Copper Safe® Base Doors

Pelco’s anti-theft Transformer Base Doors are shatter-resistant and pull-off resistant to protect against copper theft. The doors require a special Pelco Installation Kit which includes everything required for installing multiple doors and covers.

Door Assy, Copper Safe® Theft Deterrent, Steel
Fits Union Metal Med Transformer Base

PB-5529 - Coating
P = Paint

Door Assy, Copper Safe® Theft Deterrent, Steel
Fits AB Chance Transformer Base

PB-5531 - Coating
P = Paint

Note: 1. All assemblies are supplied standard with stainless fasteners.
2. Covers require AP-5121 Kit for installation.
3. Typically powder coated P40 Silver, see Reference Section for other available paint colors.
Copper Safe® Hand Hole Covers

Pelco’s anti-theft Hand Hole Covers are shatter-resistant and pull-off resistant to protect against copper theft. Copper Safe® covers are available for various sized hand holes. A special Pelco Installation Kit is required which includes everything needed for installing multiple covers and doors.

### Hand Hole Cover Assy, Copper Safe® Theft Deterrent, Steel

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Coating</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP-3172</td>
<td>P_</td>
<td>4.38” x 9.63” to 5.13” x 10.38” Oval Opening</td>
</tr>
<tr>
<td>AP-3173</td>
<td>P_</td>
<td>3.25” x 9.75” to 4.25” x 10.75” Oval Opening</td>
</tr>
<tr>
<td>AP-3161</td>
<td>P_</td>
<td>2.13” x 5.13” to 3.38” x 6.38” Oval Opening</td>
</tr>
<tr>
<td>AP-3160</td>
<td>P_</td>
<td>2” x 5” to 2.25” x 5.25” Oval Opening</td>
</tr>
<tr>
<td>AP-3167</td>
<td>P_</td>
<td>4.63” x 7.88” to 5.75” x 9.0” Oval Opening</td>
</tr>
</tbody>
</table>

Note: 1. All assemblies are supplied standard with stainless fasteners.
2. Covers require AP-5121 Kit for installation.
3. Typically powder coated P40 Silver, see Reference Section for other available paint colors.
Copper Safe® Hand Hole Covers

Pelco’s anti-theft Hand Hole Covers are shatter-resistant and pull-off resistant to protect against copper theft. Copper Safe® covers are available for various sized hand holes. A special Pelco Installation Kit is required which includes everything needed for installing multiple covers and doors.

**Hand Hole Cover Assy, Copper Safe® Theft Deterrent, Steel**

AP-3158 -  

Coating  
P_ = Paint  

fits 5” x 8” Oval Hand Hole Ring

**Hand Hole Cover Assy, Copper Safe® Theft Deterrent, Steel**

AP-3162 -  

Coating  
P_ = Paint  

fits 3.38” x 4.38” to 5” x 16” Oval Opening on 8” OD Pole

**Installation Kit, Copper Safe® Theft Deterrent, for Hand Hole Covers & Doors**

AP-5121-PNC

Note: Required for installing Pelco’s theft-deterrent hand hole covers and doors. Includes 3/16” & 3/8” drill bits, security extensions, and security extension wrench, in a PVC storage case. Installation Kit is reusable.

Note: 1. All assemblies are supplied standard with stainless fasteners.  
2. Covers require AP-5121 Kit for installation.  
3. Typically powder coated P40 Silver, see Reference Section for other available paint colors.