Duo High Security Cam Locks
SD6416

- Pick resistant lock
- Stainless steel guides to deter drilling
- 14 tumbler triple bitted keyway
- Positive tumbler operation provides for mechanical movements of the tumblers without the aid of springs. The feature reduces failures caused by dirt, corrosion or freezing.
- 14,000 primary keys available, 200 master keys, 30 grand master keys
- Stainless steel ring between plug and barrel for pull resistance
- Triple bitted keys with side serratures controlling secondary tumblers not duplicable on standard machines

Part Number | B-Dimension
--- | ---
Screw Mounted Cam | Inches | Millimeters
SD6416E | 5/8 | 15.9
SD6416G | 27/32 | 21.4
SD6416H | 1-3/32 | 27.8
SD6416L | 1-11/32 | 34.1
Nut Mounted Cam | Inches | Millimeters
SD6417E | 5/8 | 15.9
Fixed Cam | Inches | Millimeters
SD6412E | 5/8 | 15.9

* length tolerance +/- .039" [1mm]

Rev 0
4/31/2015

RoHS compliant

Illinois Lock Company
A division of the Eastern Company
www.illinoislock.com • sales@illinoislock.com • 847-537-1800
**Material and Finish**

Housing: Zinc Alloy

Finish: Bright Chrome US26 (Standard)

Satin Nickel US15 or Black E-Coat (Optional)

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**Cam Rotation and Installation**

**Figure 1**

- For all 180 turn locks. For all 90 turn locks with key withdrawal in locked position only.

**Figure 2**

- For all 90 turn locks with key withdrawal in locked and unlocked position

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Fig. 1 – For all 180 turn locks. For all 90 turn locks with key withdrawal in locked position only.

Fig. 2 – For all 90 turn locks with key withdrawal in locked and unlocked position

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Cam Types

CAM LENGTH [D]

CAM WIDTH
3/4" [19.1mm]

CAM THICKNESS
1/8" [3.2mm]

.375 SQ. TYP.

Straight Cams

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cam Length [D-Dim]*</th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2202-13</td>
<td>7/8</td>
<td>22.2</td>
<td></td>
</tr>
<tr>
<td>S2202-17</td>
<td>1</td>
<td>25.4</td>
<td></td>
</tr>
<tr>
<td>S2202-19</td>
<td>1-1/8</td>
<td>28.6</td>
<td></td>
</tr>
<tr>
<td>S2202-21</td>
<td>1-1/4</td>
<td>31.7</td>
<td></td>
</tr>
<tr>
<td>S2202-23</td>
<td>1-3/8</td>
<td>34.9</td>
<td></td>
</tr>
<tr>
<td>S2202-25</td>
<td>1-1/2</td>
<td>38.1</td>
<td></td>
</tr>
<tr>
<td>S2202-27</td>
<td>1-5/8</td>
<td>41.3</td>
<td></td>
</tr>
<tr>
<td>S2202-29</td>
<td>1-3/4</td>
<td>44.4</td>
<td></td>
</tr>
<tr>
<td>S2202-31</td>
<td>1-7/8</td>
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<td></td>
</tr>
<tr>
<td>S2202-33</td>
<td>2</td>
<td>50.8</td>
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*length tolerance +/- .039" [1mm]
Cam Types (Continued)

<table>
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<tr>
<th>Part Number</th>
<th>CCW</th>
<th>CW</th>
<th>Cam Length [D-Dim]</th>
<th>Inches</th>
<th>Millimeters</th>
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<tbody>
<tr>
<td>S2208-13</td>
<td>S2209-13</td>
<td>1/4</td>
<td>1/16</td>
<td>7/8</td>
<td>22.2</td>
</tr>
<tr>
<td>S2208-17</td>
<td>S2209-17</td>
<td>1</td>
<td></td>
<td>1</td>
<td>25.4</td>
</tr>
<tr>
<td>S2208-19</td>
<td>S2209-19</td>
<td>1-1/8</td>
<td></td>
<td>1-1/8</td>
<td>28.6</td>
</tr>
<tr>
<td>S2208-21</td>
<td>S2209-21</td>
<td>1-1/4</td>
<td></td>
<td>1-1/4</td>
<td>31.7</td>
</tr>
<tr>
<td>S2208-23</td>
<td>S2209-23</td>
<td>1-3/8</td>
<td></td>
<td>1-3/8</td>
<td>34.9</td>
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<tr>
<td>S2208-25</td>
<td>S2209-25</td>
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<td></td>
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<tr>
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<td>S2209-27</td>
<td>1-5/8</td>
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<td>S2209-31</td>
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<td></td>
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<td>47.6</td>
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<td>S2209-33</td>
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<td></td>
<td>2</td>
<td>50.8</td>
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*length tolerance +/- .039” [1mm]
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Cam Types (Continued)

Formed Cams

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<thead>
<tr>
<th>Part Number</th>
<th>Example: F2202-13-02</th>
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<tr>
<td>Cam Base Number - Cam Length - Cam Offset</td>
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<tr>
<td>Formed In Base Number</td>
<td>Formed Out Base Number</td>
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<tr>
<td>F2202</td>
<td>F2232</td>
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</table>

<table>
<thead>
<tr>
<th>Cam Length [L]</th>
<th>Cam Offset [G or H]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam Length Number</td>
<td>Inches</td>
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<tr>
<td>-13</td>
<td>7/8</td>
</tr>
<tr>
<td>-17</td>
<td>1</td>
</tr>
<tr>
<td>-19</td>
<td>1-1/8</td>
</tr>
<tr>
<td>-21</td>
<td>1-1/4</td>
</tr>
<tr>
<td>-25</td>
<td>1-1/2</td>
</tr>
<tr>
<td>-27</td>
<td>1-5/8</td>
</tr>
<tr>
<td>-29</td>
<td>1-3/4</td>
</tr>
<tr>
<td>-31</td>
<td>1-7/8</td>
</tr>
<tr>
<td>-33</td>
<td>2</td>
</tr>
</tbody>
</table>
Series Standard Accessories/Replacement Parts

- **Cam Screw 1/4-28**
  - PN: S23032G

- **Cam Nut 9/32-28**
  - PN: S8176

- **Barrel Nut M19**
  - PN: D9868

- **Flat Washer**
  - PN: S2313

- **Speed-Clip**
  - PN: HS6397
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Accessories/Replacement Parts

- Finger Pull Vertical
  PN: P9446A

- Finger Pull Horizontal
  PN: P9446B

- Metal Finger Pull
  PN: FP333

- Anchor Plate
  PN: S2315A

- Dust Cover
  PN: P9748

- Dust Cover Vertical
  PN: DC200A

- Dust Cover Horizontal
  PN: DC225A

Listed accessories are compatible with Figure 2 locks only

Figure 2

Fig. 2 – For all 90 turn locks with key withdrawal in locked and unlocked position
Accessories/Replacement Parts

Listed accessories are manufactured in different versions and selected based upon customer application. Compatible with both Figure 1 and Figure 2 locks.

Figure 1

- For all 180 turn locks. For all 90 turn locks with key withdrawal in locked position only.

Figure 2

- For all 90 turn locks with key withdrawal in locked and unlocked position.