RTP ROBOT TRANSFER PIN

- 8 - 20mm PIN DIAMETERS
- ROUND PIN ONLY, NO ANTI-ROTATE
- 50mm STROKE, SPRING LOADED

CONCAVE PIN TIP MEETS THE FIXTURE'S LOCATING PIN AND MAINTAINS SPRING FORCE CONTACT, WHILE PART IS TRANSFERRED. PIN-TO-PIN TRANSFER ALLOWS USE OF THE SAME HOLES IN PARTS WITHOUT USING NONTOLERANCE HOLES.

APPLICATIONS:
- ROBOT TEACH AID
- END OF ARM TOOLING
- PASS TABLE
- LOAD TABLE
- MATERIAL HANDLING
- PASS-OFF APPLICATION
**ORDERING INFORMATION**

**Pin Diameter**

(i.e. 8.00mm Pin = 0800)

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(i.e. 8.00mm Pin = 0800)

**Body Style**

- **A** 11.0 Dia thru & 8.00 Dia Dowels (Side)
- **B** M10 Tap thru & 8.00 Dia Dowels (Side)
- **C** 9.0 Dia thru & 8.00 Dia Dowels (Side)
- **D** M8 Tap thru & 8.00 Dia Dowels (Side)
- **E** M8 Tap & 8.00 Dia Dowels (End)

**Switch**

- **00** No Switch
- **L3** Welker Solid State Cylinder Switch**

**Spring**

- **0** Standard Spring
- **1** Light Load Spring

**GOOD APPLICATIONS:**

- ROBOT TEACH AID
- END OF ARM TOOLING
- PASS TABLE
- LOAD TABLE
- MATERIAL HANDLING
- PASS-OFF APPLICATION

**BAD APPLICATIONS:**

- NO-HOLE
- PARTS NOT CLAMPED
- PICK MISALIGNED
- PIN LINE-UP NOT THE SAME ANGLE

**SPRING PRESSURE**

<table>
<thead>
<tr>
<th>SPRING</th>
<th>STANDARD</th>
<th>LIGHT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN EXTEND</td>
<td>5.0 LBS</td>
<td>3.0 LBS</td>
</tr>
<tr>
<td>PIN RETURNED</td>
<td>25.0 LBS</td>
<td>16.0 LBS</td>
</tr>
<tr>
<td>MAX COMPRESSION</td>
<td>50.0mm</td>
<td>50.0mm</td>
</tr>
</tbody>
</table>

**GENERAL DIMENSIONS**

**Spring Pressure**

- **STANDARD**
- **LIGHT LOAD**

**DIMENSIONS TYPICAL FOR BOTH DOWEL/HOLE LOCATIONS**

- **BODY STYLE**
  - **A**
  - **B**
  - **C**
  - **D**
  - **E**

- **DOWELS**
  - **HOLE THRU (2 HOLES)**
  - **P.F. DOWEL THRU (2 HOLES)**

- **LOCATION**
  - **SIDE**
  - **END**

**DO NOT SCALE DRAWING**

**Welker**

ENGINEERED PRODUCTS

800-229-0890 www.welkerproducts.com

**NOTE:**

**L3 switch is weld field immune, comparable to World Switches. Note that some mid and low frequency DC resistance applications (i.e. aluminum resistance welding applications) may cause a fault. In these applications, it is recommended that the sensor be ignored/bypassed during the welding cycle.**
REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>QTY</th>
<th>STOCK*</th>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>STANDARD SPRING</td>
<td>S-1174</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>LIGHT LOAD SPRING</td>
<td>12064</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>PIN: ORDER BY PIN DIAMETER, 8.00-20.00mm EXAMPLE: 9.85 DIAMETER PIN = RTPE04-0985</td>
<td>RTPE04-PIN DIA</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>SWITCH</td>
<td>SWITCH L3</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>REPLACEMENT PIN KIT *SEE EXPLODED VIEW FOR INCLUDED ITEMS</td>
<td>RTP-PIN-DIA-KIT</td>
</tr>
</tbody>
</table>

*RECOMMENDED SPARE PARTS TO KEEP IN STOCK

TO REPLACE PIN AND/OR SPRING:

NOTE: COMPRESSION SPRING IS UNDER LIGHT PRESSURE

1. DISCONNECT AIR LINES TO UNIT.
2. REMOVE M5 SCREWS & LOCK WASHERS SECURING PLATE TO UNIT BODY.
3. REMOVE PLATE.
4. REMOVE PIN SLEEVE ASSEMBLY AND SPRING.
5. REMOVE PIN SCREW & LOCK WASHER SECURING PIN TO SLEEVE.
6. INSTALL NEW PIN TO PIN SLEEVE, SECURING WITH PIN SCREW & LOCK WASHER. APPLY REMOVEABLE THREAD ADHESIVE TO SCREW.
7. APPLY MAGNALUBE-G OR EQUIVALENT TO PIN SLEEVE INSIDE & OUT, SPRING, AND UNIT BODY BORE.
8. INSTALL SPRING TO PIN SLEEVE.
9. REASSEMBLE UNIT. APPLY REMOVEABLE THREAD ADHESIVE TO SCREWS. TORQUE TO VALUES SHOWN IN CHART.

<table>
<thead>
<tr>
<th>Size</th>
<th>Steel</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>10.0 Nm, 7.4 ft lb.</td>
<td>5.0 Nm, 3.7 ft lb.</td>
</tr>
<tr>
<td>M6</td>
<td>19.0 Nm, 14.0 ft lb.</td>
<td>9.5 Nm, 7.0 ft lb.</td>
</tr>
<tr>
<td>M8</td>
<td>45.0 Nm, 33.2 ft lb.</td>
<td>22.5 Nm, 16.6 ft lb.</td>
</tr>
<tr>
<td>M10</td>
<td>89.0 Nm, 65.6 ft lb.</td>
<td>44.5 Nm, 32.8 ft lb.</td>
</tr>
<tr>
<td>M12</td>
<td>156.0 Nm, 115.1 ft lb.</td>
<td>78.0 Nm, 57.5 ft lb.</td>
</tr>
</tbody>
</table>

* ITEMS INCLUDED IN REPLACEMENT PIN KIT