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PG6J80 Series 6 Jaw Gripper with Ejectors

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The series 6 finger gripper design utilizes a dual acting piston to open and close gripper jaws. All six jaws are synchronized for accurate positioning. The included ejectors operate independent of the gripper jaws, providing a convenient method to strip parts from the jaws (i.e. expanding an O-Ring and pushing it onto a desired part).

A. Body
Hardcoat, anodized, PTFE impregnated aluminum, lightweight durable.

B. Jaws
T-slot design for superior load bearing support, six jaws in synchronized parallel motion.

C. Ejectors
Independent motion from jaws. Single acting, air pressure to extend, spring return. All ejectors extend and retract together.

D. Stroke adjustment
Easy access stroke adjustment screw provides precise controllability of jaw travel. Locking jam nut secures adjusted position.

How to Order

When ordering additional switches:

<table>
<thead>
<tr>
<th>Switch Description</th>
<th>Standard Part No.</th>
<th>Quick Disconnect Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prox Switch - PNP (Sourcing)</td>
<td>PROX-65FL2-PN</td>
<td>PROX-65QDS-P</td>
</tr>
<tr>
<td>Prox Switch - NPN (Sinking)</td>
<td>PROX-65FL2-PN</td>
<td>Not Available</td>
</tr>
<tr>
<td>Quick disconnect Cable</td>
<td>–</td>
<td>PXCST</td>
</tr>
<tr>
<td>90º 5 meter cable</td>
<td>–</td>
<td>PXC90</td>
</tr>
</tbody>
</table>

Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.
### PG6J80 Series

**6 Jaw Gripper with Ejectors**

#### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>PG6J80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grip Force @ 100 PSI</td>
<td>81 lbs</td>
</tr>
<tr>
<td>Stroke (Spreading Jaw)</td>
<td>0.640 Adjustable</td>
</tr>
<tr>
<td>Stroke (Ejecting Jaws)</td>
<td>0.250</td>
</tr>
<tr>
<td>Repeatability</td>
<td>+/- 0.002</td>
</tr>
<tr>
<td>Bore Dia.</td>
<td>1.0</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-20° to 180°F</td>
</tr>
<tr>
<td>Buna-N</td>
<td></td>
</tr>
<tr>
<td>Max. Actuation Speed</td>
<td>0.2 sec</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>1.25 lbs</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>150 PSI</td>
</tr>
</tbody>
</table>

#### Jaw Loading

<table>
<thead>
<tr>
<th>Jaw Loading</th>
<th>PG6J80</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-compression</td>
<td>60 lbs</td>
</tr>
<tr>
<td>T-tension</td>
<td>60 lbs</td>
</tr>
<tr>
<td>Mx</td>
<td>60 in.-lbs.</td>
</tr>
<tr>
<td>My</td>
<td>60 in.-lbs.</td>
</tr>
<tr>
<td>Mz</td>
<td>60 in.-lbs.</td>
</tr>
</tbody>
</table>
PG6J80 Series O-Ring Gripper

<table>
<thead>
<tr>
<th>Series</th>
<th>Bracket P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG6J80</td>
<td>N99-1202</td>
</tr>
</tbody>
</table>

Quick Disconnect Cables

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Type</th>
<th>Operating Voltage</th>
<th>Current Rating</th>
<th>Cable Material</th>
<th>Protection</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXCST</td>
<td>Straight 5 m Cable (3 x 26 Gauge wire)</td>
<td>60 AC/75 DC</td>
<td>3 A</td>
<td>PUR</td>
<td>IP 68, III</td>
<td>M8</td>
</tr>
<tr>
<td>PXC90</td>
<td>90° 5 m Cable (3 x 26 Gauge wire)</td>
<td>60 AC/75 DC</td>
<td>3 A</td>
<td>PUR</td>
<td>IP 68, III</td>
<td>M8</td>
</tr>
</tbody>
</table>

Prox Switch (PNP & NPN NO) Flying Leads - PROX-65FL2-PN

Electrical Design
- DC PNP/NPN
  - Normally Open
  - 10-36 VDC
- Operating Voltage
  - 200 mA
- Current Rating
  - 4 mA
- Minimum Load Current
  - < .8 mA
- Short Circit Protection
  - No
- Overload Protection
  - No
- Reverse Polarity Protection
  - No
- Voltage Drop
  - < 2.6 V
- Real Sensing Range
  - 1mm ± 10%
- Switching Frequency
  - > 900 Hz
- Ambient Temperature
  - -25°C to 80°C
- IP 67
- Protection
  - -10 - 10% OF Sr
  - 1 - 15% OF Sr
- Switch-Point Drift
  - 1.38 [35.0]
- Hysteresis
  - 1.06 [27.0]
- Operating Distance
  - Correction Factor
  - Mild Steel=1, Stainless Steel=.7, Brass=.5, Alum.=.4, Copper=.3
  - Brass with Bronze Coated
- Housing Material
  - Yellow LED
- Function Display Switching Status
- Connection
  - PVC Cable, 2m, 3 x .14mm²
Prox Switch (PNP NO) 8 mm connector - PROX-65QDS-P

Electrical Design
Output: 3-Wire DC PNP
Operating Voltage: Normally Open
10-30 VDC
Current Rating: 100 mA
Overload Protection: Yes (Non Latching)
Reverse Polarity Protection: Yes
Voltage Drop: < 2.5 V
< 15 mA
Short Circuit Protection: Yes
Overload Protection: Yes
Real Sensing Range: 2mm ± 10%
Switching Frequency: > 1500 Hz
Ambient Temperature: -20°C to 70°C
Protection: IP 67*, III
Switch-Point Drift: -10 - 10% OF Sr
Hysteresis: 1 - 15% OF Sr
Operating Distance: 0 - 1.62mm
Correction Factor: Mild Steel=1, Stainless Steel=.7,
Brass=.5, Aluminum=.4, Copper=.3
Housing Material: Housing: High Grade Stainless;
Active Face: LCP
Function Display Switching Status: Yellow LED (4 X 90°)
Connection: M8 Connector
Remarks: cULus– Class 2 Source Required

*Switches are not designed for wet environments. Please see your distributor for additional information.