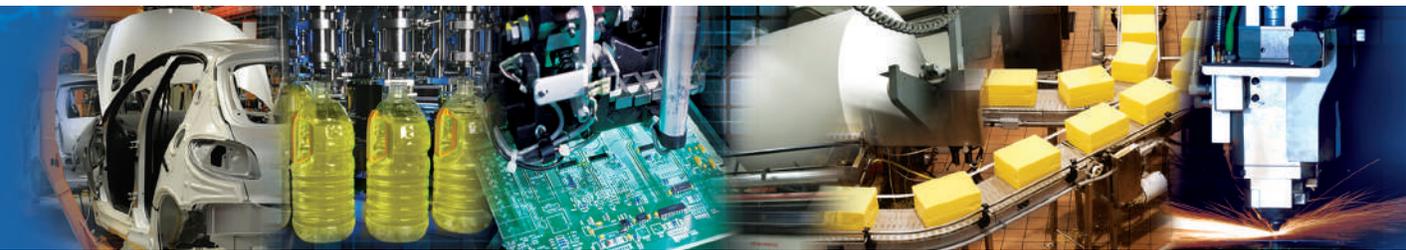


NUMATICS®

PG6J80 Series

Six Jaw Gripper with Ejectors



www.numatics.com


EMERSON
Industrial Automation

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

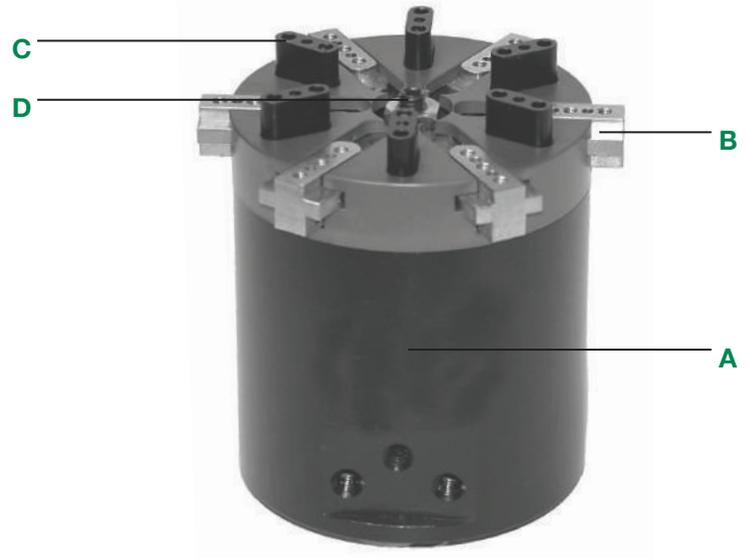
T-slot design for superior load bearing support, six jaws in synchronized parallel motion.

C. Ejectors

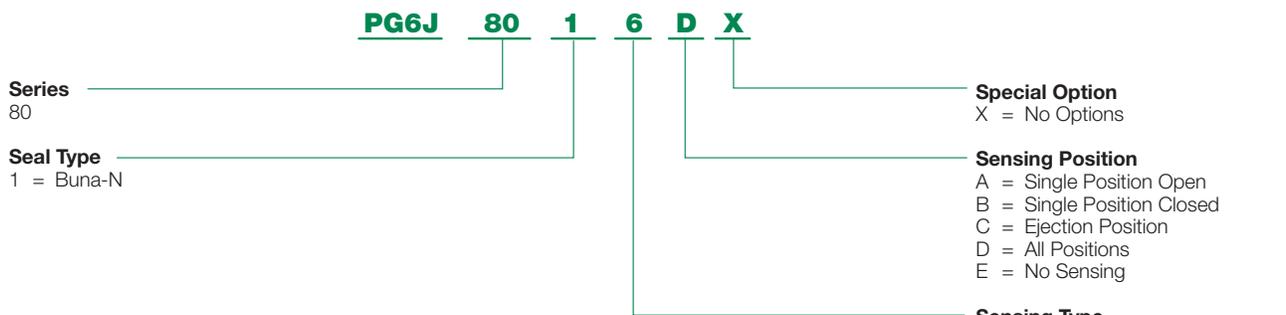
Independent motion from jaws. Single acting, air pressure to extend, spring return. All ejectors extend and retract together.

D. Stroke adjustment

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



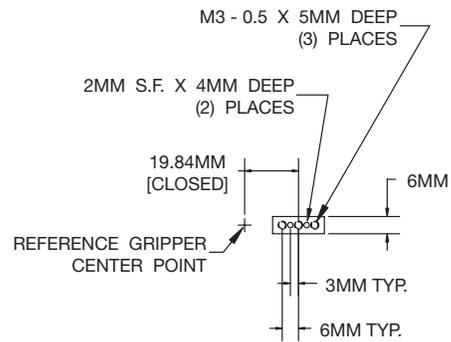
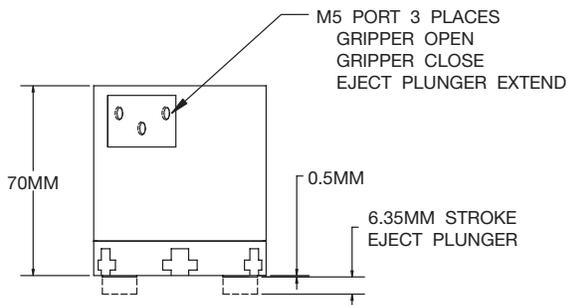
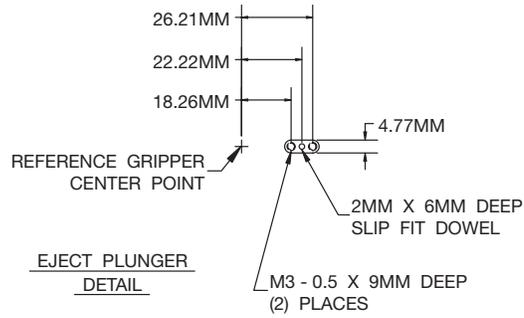
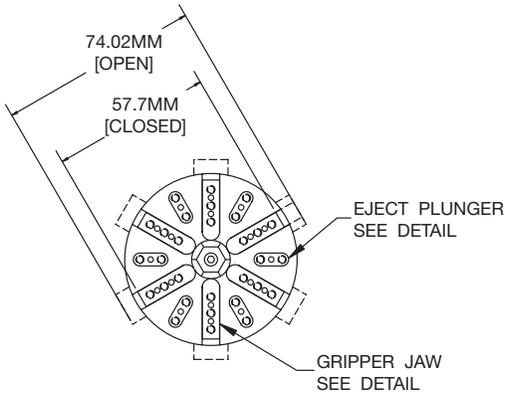
How to Order



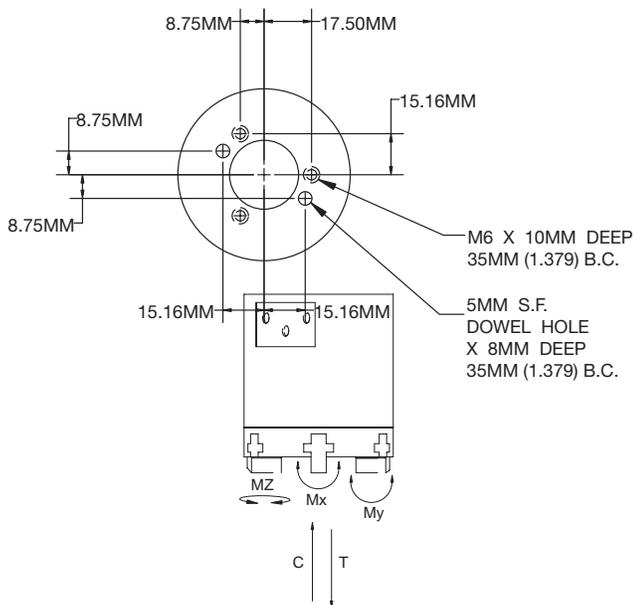
When ordering additional switches:

| Switch Description | Standard Part No. | Quick Disconnect Part No. |
|------------------------------|-------------------|---------------------------|
| Prox Switch - PNP (Sourcing) | PROX-65FL2-PN | PROX-65QDS-P |
| Prox Switch - NPN (Sinking) | PROX-65FL2-PN | Not Available |
| Quick disconnect Cable | - | PXCST |
| 90° 5 meter cable | - | PXC90 |

PG6J80 Series



GRIPPER JAW
DETAIL



Specifications

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

| Jaw Loading | PG6J80 |
|--------------------|---------------|
| C-compression | 60 lbs. |
| T-tension | 60 lbs. |
| Mx | 60 in.-lbs. |
| My | 60 in.-lbs. |
| Mz | 60 in.-lbs. |

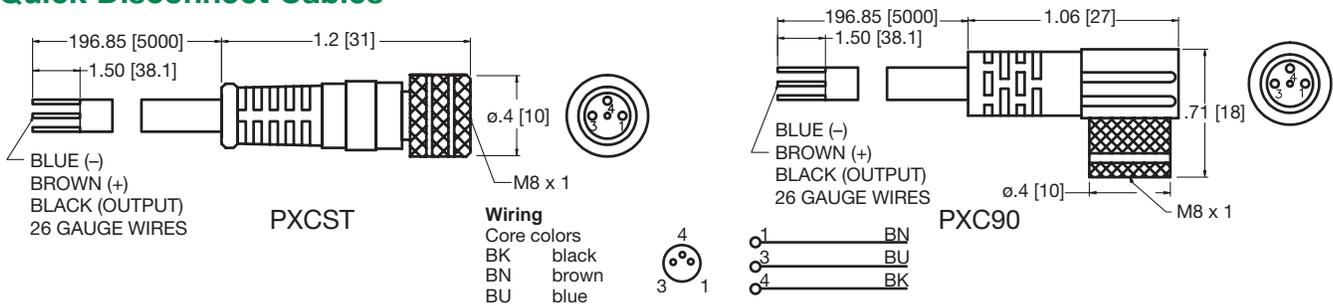
PG6J80 Series O-Ring Gripper

| Series | Bracket P/N |
|--------|-------------|
| PG6J80 | N99-1202 |



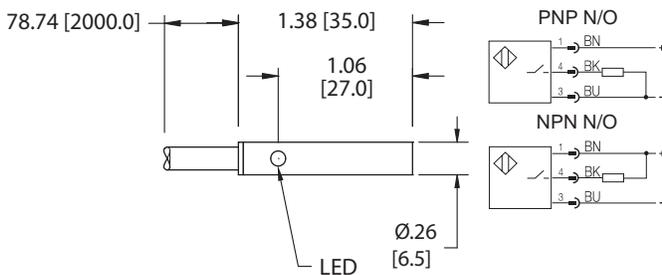
| Sensor Description | Standard Cord Set | Quick Disconnect |
|--------------------|-------------------|------------------|
| Prox PNP | PROX-65FL2-PN | PROX-65QDS-P |
| Prox NPN | PROX-65FL2-PN | Not Available |

Quick Disconnect Cables



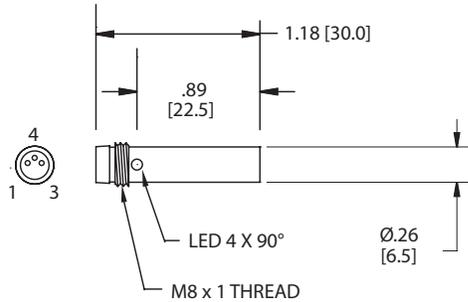
| Order Code | Type | Operating Voltage | Current Rating | Cable Material | Protection | Connector |
|------------|--|-------------------|----------------|----------------|------------|-----------|
| PXCST | Straight 5 m Cable (3 x 26 Gauge wire) | 60 AC/75 DC | 3 A | PUR | IP 68, III | M8 |
| PXC90 | 90° 5 m Cable (3 x 26 Gauge wire) | 60 AC/75 DC | 3 A | PUR | IP 68, III | M8 |

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



| | |
|-----------------------------|--|
| Electrical Design | DC PNP/NPN |
| Output | Normally Open |
| Operating Voltage | 10-36 VDC |
| Current Rating | 200 mA |
| Minimum Load Current | 4 mA |
| Leakage Current | < .8mA |
| Short Circuit Protection | No |
| Overload Protection | No |
| Reverse Polarity Protection | No |
| Voltage Drop | < 2.6V |
| Real Sensing Range | 1mm ± 10% |
| Switching Frequency | > 900 Hz |
| Ambient Temperature | -25°C to 80°C |
| Protection | IP 67 |
| Switch-Point Drift | -10 - 10% OF Sr |
| Hysteresis | 1 - 15% OF Sr |
| Operating Distance | 0 - .8mm |
| Correction Factor | Mild Steel=.1, Stainless Steel=.7, Brass=.5, Alum.=.4, Copper=.3 |
| Housing Material | Brass with Bronze Coated |
| Function Display | Yellow LED |
| Switching Status | PVC Cable, 2m, 3 x .14mm2 |
| Connection | |

Prox Switch (PNP NO) 8 mm connector - PROX-65QDS-P



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



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



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