numatics[®]

PG6J80 Series

Six 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. An example of this could be expanding an o-ring and

pushing it on to the 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

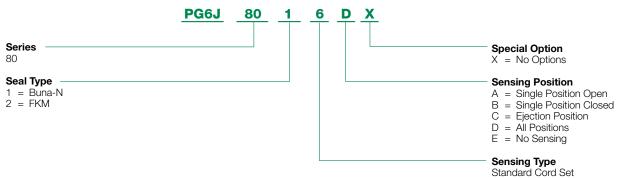
Independent motion from jaws. Single acting, air pressure to extend, spring return. All ejectors extend and retract together.

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

4 = Prox Switch - PNP (sourcing)

5 = Prox Switch - NPN (sinking)

6 = No Sensing

Quick Disconnect Cord Set

W = Prox Switch - PNP (sourcing) Straight V = Prox Switch - NPN (sinking) Straight

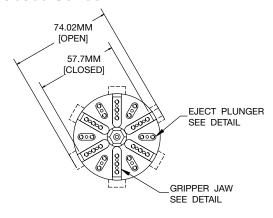
U = Prox Switch - PNP (sourcing) 90 Deg.

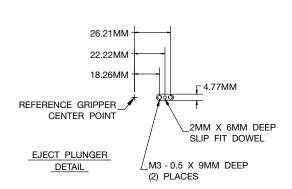
T = Prox Switch - NPN (sinking) 90 Deg.

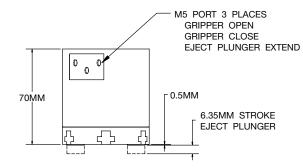
Prox switch 6.5 mm diameter.

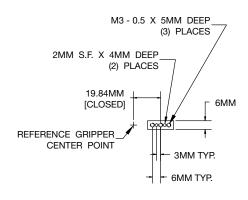


PG6J80 Series



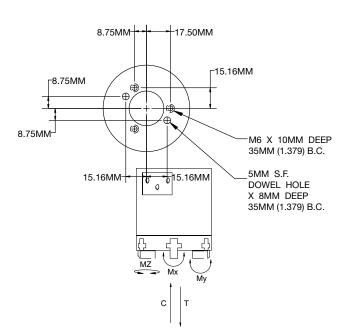






GRIPPER JAW





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	-30° to 180°F		
FKM	-20° to 300°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 inlbs.
Му	60 inlbs.
Mz	60 inlbs.



PG6J80 Series O-Ring Gripper

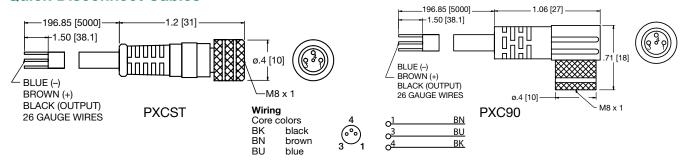
Series	Bracket P/N		
PG6J80	N99-1202		



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

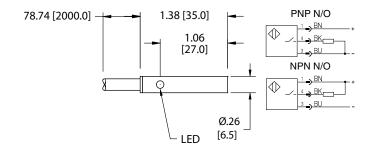
See page 20 for sensor specifications

Quick Disconnect Cables



Order Code	Туре	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



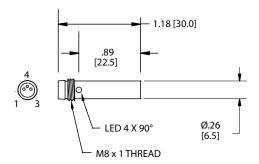
Electrical Design Output Operating Voltage Current Rating Minimum Load Current Leakage Current Short Circit Protection Overload Protection Reverse Polarity Protection Voltage Drop Real Sensing Range Switching Frequency Ambient Temperature Protection Switch-Point Drift Hysteresis Operating Distance Correction Factor

Housing Material Function Display Switching Status Connection

DC PNP/NPN Normally Open 10-36 VDC 200 mA 4 mA < .8mA No No No < 2.6V 1mm ± 10% > 900 Hz -25°C to 80°C IP 67 -10 - 10% OF Sr 1 - 15% OF Sr 0 - .8mm Mild Steel=1, Stainless Steel=.7, Brass=.5, Alum.=.4, Copper=.3 Brass with Bronze Coated Yellow LED PVC Cable, 2m, 3 x .14mm2



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



Electrical Design
Output
Operating Voltage
Current Rating
Short Circuit Protection
Overload Protection
Reverse Polarity Protection
Voltage Drop
Current Consumption
Real Sensing Range
Switching Frequency
Ambient Temperature
Protection
Switch-Point Drift
Hysteresis
Operating Distance
Correction Factor

Housing Material

Function Display Switching Status Connection Remarks

3-Wire DC PNP Normally Open 10-30 VDC 100 mA Yes (Non Latching) Yes Yes < 2.5 V < 15 mA $2mm \pm 10\%$ > 1500 Hz -20°C to 70°C IP 67*, III -10 - 10% OF Sr 1 - 15% OF Sr 0 - 1.62mm Mild Steel=1, Stainless Steel=.7, Brass=.5, Alum.=.4, Copper=.3 Housing: High Grade Stainless; Active Face: LCP Yellow LED (4 X 90°) M8 Connector cULus- Class 2 Source Required *If Screwed On





RoHS

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



World Class Supplier of Pneumatic Components



World Headquarters

USA Numatics, Incorporated 46280 Dylan Drive Novi, Michigan 48377

P: 248-596-3200 F: 248-596-3201 **Canada Numatics, Ltd** P: 519-758-2700 F: 519-758-5540

México - Ascomatica SA de CV P: 52 55 58 09 56 40 (DF y Area metropolitana) P: 01 800 000 ASCO (2726) (Interior de la República) F: 52 55 58 09 56 60 **Brazil Ascoval Ind.e Comercio Ltda** P: (55) 11-4208-1700 F: (55) 11-4195-3970