

P6 series switches are sealed against immersion and corrosive atmospheres. These switches are designed for rugged duty both mechanically and electrically. A one-piece nickel plated stainless steel or brass housing, sealed at the plunger with an 0 -ring and at the base with a glass-to-metal header option provides true environment-free sealing to comply with MIL-PRF-8805/39, MIL-PRF-8805/40, MIL-PRF-8805/43, and MIL-PRF-8805/100. Most

|  | Votre distributeur officiel |
| :--- | :--- | :--- | case parts are grounded for EMI reduction.

The P6 series is available with roller plunger styles for cam or slide actuation and pin plunger for in-line actuation. Contact factory for additional designs.
P6 series features the OTTO B2, B3 or B5 series snap-action basic switch. High contact pressure and unique contact design provides low contact resistance for low level switching as well as full rated service.

## Features:

- Complies with MIL-PRF-8805 sealing
- One-piece housing
- Sealed at plunger with 0-rings
- Sealed at base with a glass seal
- EMI reduction construction
- Choice of pin or roller plunger
- Choice of axial or radial leads


Cross section example of OTTO P6-24XXX series.


| Style B |
| :--- |
| Roller Plunger |
| Radial Leads |



| SPECIFICATIONS: Standard Models |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ELECTRICAL RATINGS: |  |  |  |  |  |
| RATING TABLE 1 |  |  |  |  |  |
| Resistive |  | 7A |  | 7A |  |
| Inductive |  | 4A |  | 2.5A |  |
| Motor |  | 4A |  | (4A) |  |
| DWV |  | 1000Vrms |  | 400Vrms |  |
| RATING TABLE 2 |  |  |  |  |  |
| Resistive |  | 7A |  | 7A |  |
| Inductive |  | 3A |  | 3A |  |
| Motor |  | 4A |  | 4A |  |
| Lamp |  | 2A |  | 1A |  |
| DWV |  | 1250 Vrms |  | 600 Vrms |  |
| RATING TABLE 3 |  |  |  |  |  |
| Resistive |  | 4A |  | 4A |  |
| Inductive |  | 2 A |  | 2 A |  |
| Motor |  | 4A |  | 4A |  |
| DWV |  | 1000 Vrms |  | 400Vrms |  |
| RATING TABLE 4 |  |  |  |  |  |
| Load Type Resistive | Power Circuit 1A | $\begin{gathered} \text { Elex Logic } \\ 0.01 \mathrm{~A} \end{gathered}$ | Low Level $0.01 \mathrm{~A}$ | Power Circuit 1A | Elex Logic $0.01 \mathrm{~A}$ |
| Inductive | 0.5A | N/A | N/A | 0.5A | N/A |
| DWV |  | 1000Vrms |  | 400 V |  |



| Circuitry | Plunger/Lead Exit Style | Dim. A Free Position (inches $+/-0.030$ ) | Dim. B <br> Bushing Length (inches +/- 0.030) | Dim. C Thread (inches) | Dim. D Body Dia. (max inches) | Dim. E Body Length (max inches) | Electrical Rating Table | Military Number | Catalog <br> Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MIL-PRF-8805/39 |  |  |  |  |  |  |  |  |  |
| 2PDT | A-Pin/Radial | 1.375 | 1.000 | 0.625-24 | 0.720 | 0.980 | 1 | MS21321-1 | P6-24000 |
| 4PDT | A-Pin/Radial | 1.375 | 1.000 | 0.625-24 | 1.031 | 1.200 | 1 | MS21321-2 | P6-24001 |
| MIL-PRF-8805/40 |  |  |  |  |  |  |  |  |  |
| 2PDT | A-Pin/Radial | 1.375 | 1.000 | 0.625-24 | 1.015 | 0.980 | 3 | MS24331-1 | P6-24002 |
| MIL-PRF-8805/43 |  |  |  |  |  |  |  |  |  |
| 2PDT | A-Pin/Radial | 0.875 | 0.625 | 0.469-32 | 0.720 | 1.000 | 1 | MS27240-1 | P6-24003 |
| 4PDT | A-Pin/Radial | 0.875 | 0.625 | 0.469-32 | 1.031 | 1.200 | 1 | MS27240-2 | P6-24004 |
| 2PDT | B-Roller/Radial * | 1.295 | N/A | 0.469-32 | 0.720 | 1.000 | 1 | MS27240-3 | P6-14000 |
| 4PDT | B-Roller/Radial * | 1.295 | N/A | 0.469-32 | 1.031 | 1.200 | 1 | MS27240-4 | P6-14001 |
| 2PDT | A-Pin/Radial | 0.875 | 0.625 | 0.469-32 | 0.720 | 1.000 | 4 | MS27240-5 | P6-24005 |
| 4PDT | A-Pin/Radial | 0.875 | 0.625 | 0.469-32 | 1.031 | 1.200 | 4 | MS27240-6 | P6-24006 |
| 2PDT | B-Roller/Radial * | 1.295 | N/A | 0.469-32 | 0.720 | 1.000 | 4 | MS27240-7 | P6-14002 |
| 4PDT | B-Roller/Radial * | 1.295 | N/A | 0.469-32 | 1.031 | 1.200 | 4 | MS27240-8 | P6-14003 |
| MIL-PRF-8805/100 |  |  |  |  |  |  |  |  |  |
| 4PDT | A-Pin/Radial | 1.375 | 1.000 | 0.625-24 | 1.030 | 1.100 | 2 M | MIL-PRF-8805/100-007 | P6-24043 |
| 4PDT | C-Pin/Axial | 1.375 | 1.000 | 0.625-24 | 1.030 | 1.200 | 2 M | MIL-PRF-8805/100-008 | P6-24044 |
| 4PDT | B-Roller/Radial ** | 1.781 | 0.794 | 0.625-24 | 0.925 | 1.100 | 2 M | MIL-PRF-8805/100-009 | P6-14035 |
| 4PDT | D-Roller/Axial ** | 1.781 | 0.794 | 0.625-24 | 1.030 | 1.200 | 2 M | MIL-PRF-8805/100-010 | P6-14036 |
| 4PDT | A-Pin/Radial | 1.375 | 1.000 | 0.625-24 | 1.030 | 1.100 | 2 M | MIL-PRF-8805/100-015 | P6-24007 |
| 4PDT | C-Pin/Axial | 1.375 | 1.000 | 0.625-24 | 1.030 | 1.200 | 2 M | MIL-PRF-8805/100-016 | P6-24008 |
| 4PDT | B-Roller/Radial ** | 1.781 | 0.794 | 0.625-24 | 1.030 | 1.100 | 2 M | MIL-PRF-8805/100-017 | P6-14005 |
| 4PDT | D-Roller/Axial ** | 1.781 | 0.794 | 0.625-24 | 1.030 | 1.200 | 2 M | MIL-PRF-8805/100-018 | P6-14006 |

* Roller diameter is 0.375 inches. ${ }^{* *}$ Roller diameter is 0.500 inches.

NOTE: SEE MILITARY OPL CROSS REFERENCE LISTING IN APPENDIX.

polyurethane paint on the switch body and has a military style connector. Bushing is 15/32-32.
P6-24026

| Actuating Force: | $9.0+/-3.0 \mathrm{lbs}$. |
| :--- | :--- |
| Release Force: | $4.0 \mathrm{lbs} . \min$ |
| Overtravel: | $0.125^{\prime \prime} \mathrm{min}$ |
| Circuit: | SPDT |
| Rating: | 7 amps Resistive |
|  | 4 amps Inductive <br> Contacts: |
|  | Gold |



## Flange Mount

Low profile four pole switch features flange mounted stainless steel housing with an 8 pin connector.

## P6-20121

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Release Force:
Circuit:
Rating: $\quad 0.5 \mathrm{amps}$ Resistive for
Contacts:


## Rubber Bonded Leads

Aircraft switch features special $48^{\prime \prime}$ leads with a Fluorosilicone rubber bonded to wire leads.
P6-20050
Total Travel:
Operating Force:
Release Force:
Circuit:
Rating:
Contacts:


## Adjustable Roller Plunger

Design 4 (Resilient) sealed 2PDT limit switch with adjustable orientation of roller plunger at $45^{\prime}$ increments. 72 " wire leads included.

## P6-14000

Overtravel:
Operating Forc
Release Force:
Circuit:
Rating:
$0.125^{\prime \prime}$ min
$9.0+/-3.0 \mathrm{lbs}$.
4.0 lbs . min

2PDT
7 amps Resistive
4 amps Inductive
Contacts:
Gold

