SEALED LIMIT SWITCHES

SEALED AGAINST IMMERSION & CORROSIVE ATMOSPHERES



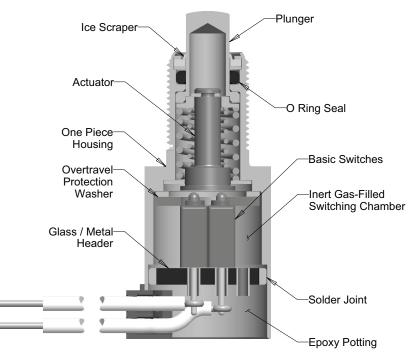
P6 series switches are sealed against immersion and corrosive atmospheres. These switches are designed for rugged duty both mechanically and electrically. A one-piece nickel plated stainless steel or brass housing, sealed at the plunger with an O-ring and at the base with a glass-to-metal header option provides true environment-free sealing to comply with MIL-PRF-8805/39, MIL-PRF-8805/40, MIL-PRF-8805/43, MIL-PRF-8805/100 and MIL-PRF-8805/104. Most 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 O-rings
- Sealed at base with a glass seal
- EMI reduction construction
- Choice of pin or roller plunger
- Choice of axial or radial leads

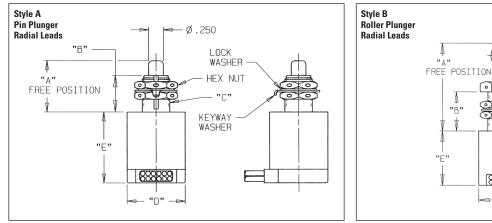


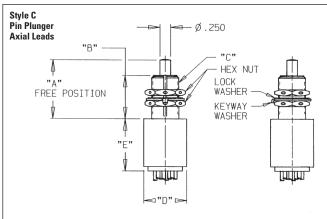
Cross section example of OTTO P6-24XXX series.

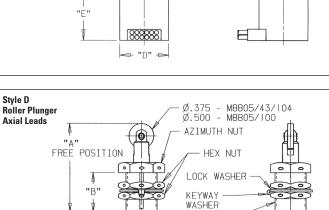
SEALED LIMIT SWITCHES

FEATURING OTTO B2 & B3 SERIES BASIC SWITCHES









0

"B"

Ø.375 - M8805/43/104 Ø.500 - M8805/100

AZIMUTH NUT

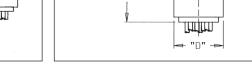
HEX NUT

LOCK WASHER

KEYWAY WASHER

"C"

"C"



"E'

P6

LIMIT SWITCHES

LUU

SEALED LIMIT SWITCHES

FEATURING OTTO B2 & B3 SERIES BASIC SWITCHES

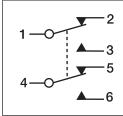
SPECIFICA [®]	TIONS: Standa	ard Models						
ELECTRICAL	RATINGS:							
Load	S	Sea Level @ 28VDC			50,000 feet @ 28VDC			
RATING TAB	LE 1							
Resistive		7A			7A			
Inductive		4A			2.5A			
Motor		4A		(4A)				
DWV		1000Vrms			400Vrms			
RATING TAB	LE 2							
Resistive		7A			7A			
Inductive		3A			3A			
Motor		4A			4A			
Lamp		2A			1A			
DWV		1250Vrms			600Vrms			
RATING TAB	LE 3							
Resistive		4A 4A						
Inductive		2A			2A			
Motor		4A			4A			
DWV		1000Vrms			400Vrms			
RATING TAB	LE 4							
Load Type	Power Circuit	Elex Logic	Low Level	Power Circuit	Elex Logic			
Resistive	1A	0.01A	0.01A	1A	0.01A			
Inductive	0.5A	N/A	N/A	0.5A	N/A			
DWV		1000Vrms			400Vrms			

Electrical Life:	25,000 cycle	s			
Low Level Life:	25,000 cycle				
Contact Resistance:	Per MIL-PR	1-			
Operating Force:	6.0 lbs. to 12 Other forces				
Overtravel Force:	30.0 lbs. ma	1_			
Release Force:	4.0 lbs. min	4-			
Pretravel: MIL-PRF-8805/39, /40, /4 MIL-PRF-8805/100: MIL-PRF-8805/104: Movement Differential:	43:	0.040 inches 0.070 inches 0.050 inches	:		
MIL-PRF-8805/39, /40, /4 MIL-PRF-8805/100: MIL-PRF-8805/104:	43:	0.020 inches 0.035 inches 0.030 inches	1—		
Overtravel: MIL-PRF-8805/39, /40, / MIL-PRF-8805/43, /104:	100:	0.250 inches 0.125 inches	4_		
Wire Type: Per MIL-W-22759/7 Marked per MIL-W-5088. Standard length: 6 feet. Other lengths available.					
Operating Temp Range: -55°C to 85°C					

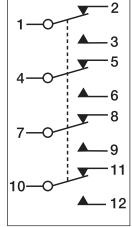
Mounting/Termination:

Bushing mounting with positive, non-turn features. Wire leads potted at terminal base for strain relief and added insulation. Each wire is marked with circuit identification.

For specific details not shown above, please consult the appropriate military specification sheet or OTTO's product drawing.



2PDT Schematic



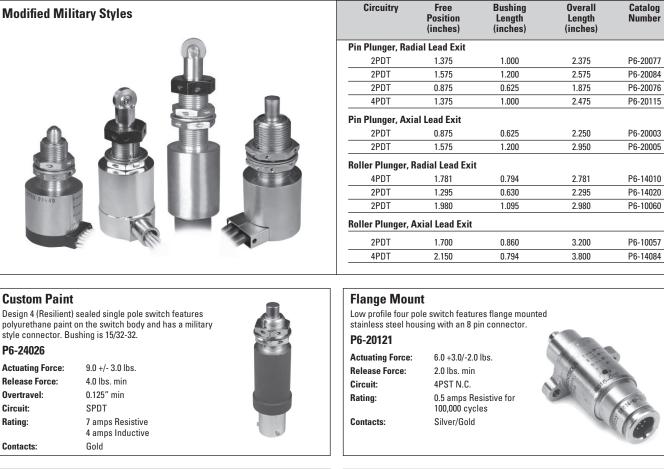
4PDT Schematic

Circuitry	Plunger/Lead Exit Style	Dim. A Free Position (inches +/- 0.030)	Dim. B 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 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 N	1IL-PRF-8805/100-007	P6-24043
4PDT	C-Pin/Axial	1.375	1.000	0.625-24	1.030	1.200	2 N	1IL-PRF-8805/100-008	P6-24044
4PDT	B-Roller/Radial **	1.781	0.794	0.625-24	0.925	1.100		1IL-PRF-8805/100-009	P6-14035
4PDT	D-Roller/Axial **	1.781	0.794	0.625-24	1.030	1.200		1IL-PRF-8805/100-010	P6-14036
4PDT	A-Pin/Radial	1.375	1.000	0.625-24	1.030	1.100		1IL-PRF-8805/100-015	P6-24007
4PDT	C-Pin/Axial	1.375	1.000	0.625-24	1.030	1.200		1IL-PRF-8805/100-016	P6-24008
4PDT	B-Roller/Radial **		0.794	0.625-24	1.030	1.100		1IL-PRF-8805/100-017	P6-14005
4PDT	D-Roller/Axial **	1.781	0.794	0.625-24	1.030	1.200	2 N	1IL-PRF-8805/100-018	P6-14006
MIL-PRF-8805/104									
4PDT	A-Pin/Radial	1.375	1.000	0.469-32	0.850	1.100	2 N	1IL-PRF-8805/104-001	P6-20001
4PDT	B-Roller/Radial *	1.719	0.895	0.469-32	0.850	1.100	2 N	1IL-PRF-8805/104-002	P6-10002
4PDT	C-Pin/Axial	1.375	1.000	0.469-32	0.850	1.100	2 N	1IL-PRF-8805/104-003	P6-20002
4PDT	D-Roller/Axial *	1.719	0.895	0.469-32	0.850	1.200	2 N	1IL-PRF-8805/104-004	P6-10003
* Roller diameter is 0.375 inches. ** Roller diameter is 0.500 inches. NOTE: SEE MILITARY QPL CROSS REFERENCE LISTI						NCE LISTING I	N APPENDIX.		

LIMIT SWITCH NOTEWORTHY DESIGNS

APPLICATION-SPECIFIC MODIFIED PRODUCTS

Free



Longer Bushing

Circuit: Rating:

This two pole switch features an extra long mounting bushing. Bushing is 15/32-32.

P6-20005 Overtravel: 0.250" min **Operating Force:** 9.0 +/- 3.0 lbs. **Release Force:** 4.0 lbs. min Circuit: 2PDT Rating: 7 amps Resistive 3 amps Inductive Contacts: Gold



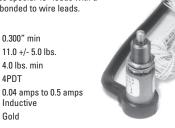
Rubber Bonded Leads Aircraft switch features special 48" leads with a Fluorosilicone rubber bonded to wire leads. P6-20050

Total Travel: Operating Force: Release Force: Circuit: Rating: Contacts:

4PDT

Gold

Inductive



Adjustable Roller Plunger

Design 4 (Resilient) sealed 2PDT limit switch with adjustable orientation of roller plunger at 45' increments. 72" wire leads included. P6-14000 Overtravel: 0 125" min **Operating Force:** 9.0 +/- 3.0 lbs **Release Force:** 4.0 lbs. min **Circuit**: 2PDT Rating: 7 amps Resistive 4 amps Inductive Contacts: Gold

Sleaved Wires

This two pole switch features a lower spring force and sleaved wires.

P6-24111 0.500" min Overtravel: **Operating Force:** 3.0 to 6.0 lbs. 2.0 lbs. min **Release Force:** Circuit: 2PDT Rating: 7 amps Resistive 4 amps Inductive Contacts: Gold





NOTEWORTHY DESIG

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 622EN69-3
 622EN85-RB
 MA-10019

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 7LS51
 83547001
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 83830001
 83840701
 83841001
 83881140
 8AS42
 8LS10
 8LS125-4PG
 8LS152-4PGN20
 914CE16

 3A
 914CE3-3L1
 915PA10
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 924CE16-Y3
 924CE1-S6
 924CE1-T25A
 924CE1-T3
 924CE1-T9A
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