P4 PUSHBUTTONS FOR BASICS

BUSHING MOUNT PUSHBUTTONS FOR OTTO B2 & B3 BASICS

IP68S Sealed Construction

P4 series auxiliary actuators are designed to work with OTTO B2 (single break) and B3 (double break) basic switches. Auxiliary type actuators offer a wide variety of styles and types. Special basic switch characteristics can be specified to match your application needs. All case styles, except 1 and 4, feature OTTO's patented "rolling sleeve" principle and are sealed to IP68S.



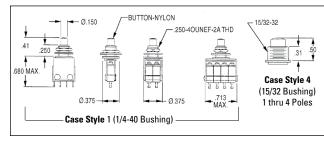
Unsealed Construction

These unsealed pushbutton actuators feature a choice of 1/4" and 15/32" mounting bushings with nylon buttons available in nine colors. Choose single, two, three and four pole models. To order standard models, use the Part Number Code shown below.





Number of Poles	Operating Force (oz)	Release Force (oz)	
1	8	2	
2	16	2	
3	24	3	
4	32	4	

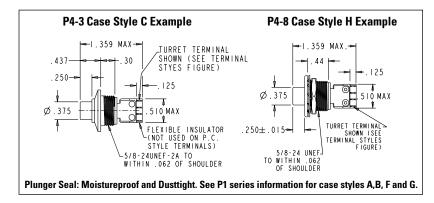


Sealed Construction

Moistureproof at the front panel. Choice of one and two pole configurations. Select from a variety of six bezel/bushing mount case styles in clear (silver) or black anodized aluminum. Styles C, H and F are illustrated here. For styles A, B and G, see P1 series information. Buttons are available in nine colors. Basic switches are per MIL-PRF-8805/101.

Operating Force: 4.0 lbs. max

Use Part Number Code below to specify your requirements.



RFI Shielding Option with Moistureproof Panel Seal

RFI shielding can be included along with the moistureproof sealing feature in all case styles (except styles 1 and 4) and in single or double pole momentary action. Case styles are illustrated at left. The plunger seal is dusttight and moistureproof. Basic switches per MIL-PRF-8805/101.

Operating Force: 5.0 lbs. max

P4 PART NUMBER CODE

To order, see Part Number Code below.

ORDERING INFORMATION:

Standard Auxiliary Actuator Assemblies for Basics

Select the OTTO P4 pushbutton switch assembly to match your specific application needs. Standard and special features are shown at right. Specify your choice by building the OTTO Part Number Code.

Example: P4-614121 features the style "F" case, DPDT (4 terminals each), PC terminals, single step momentary action, black bezel with red button.

P4	X	K X 2	K X	X	
	/		$\langle \rangle$		
Case Style	Terminal Style	Circuit Form	Switching Action	Bezel Color	Button Color
1. 1/4-40 THD	1. PC Terminal	1. SPDT 3 Terminal	1. Momentary	1. Silver	1. Red
2. Style B ①	2. Turret	2. SPDT 4 Terminal	2. Two Step 3 4	2. Black	2. Black
3. Style C	3. Wire Wrap	3. DPDT 6 Terminal	3. RFI Shielded 3		3. Orange
4. 15/32-32 THD		 DPDT 8 Terminal 	(Momentary)		4. Yellow
5. Style A 1		5. 3PDT 9 Terminal @			5. Green
6. Style F		6. 3PDT 12 Terminal @			6. Blue
7. Style G ①		7. 4PDT 12 Terminal @			7. Purple
8. Style H		8. 4PDT 16 Terminal @			8. Gray
					9. White

① See P1 Series information for front panel appearance details.

② Available in case styles 1 and 4 only.

PΔ PUSHBUTTONS FOR BASICS

ACTUATORS FOR BASIC SWITCHES

BUSHING MOUNT PUSHBUTTONS FOR B2 & B3 BASICS





Part No.

SPDT-DB

P4-10050-1

P4-10050-2

N/A

N/A

N/A

N/A

N/A

Table A

Part No.

DPDT-DB

P4-10149-1

P4-10149-2

P4-10149-3

P4-10149-4

P4-10149-6

P4-10149-7

P4-10149-9

Button

Color

Red

Black

Orange

Yellow

Blue

Purple

Clear

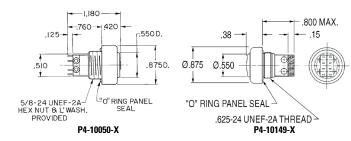
Rugged Sealed Panel

These rugged, sealed aluminum pushbutton actuators are anodized in a variety of colors. Available in one and two pole models. An O-ring provides the panel seal to keep out water and dust from the basic switches behind the panel.

Operating Force:

1 Pole: 2.5 lbs. max 2 Pole: 4.0 lbs.

To order, please use Table A.



Miniature, Offset Pushbutton

This miniature switch features an offset pushbutton to clear back of panel interference, stainless steel bushing and natural acetal button.

Operating Force: 8 oz max Circuit: SPDT Rating: 1 amp Resistive Mechanical Life: 50,000 cycles Electrical Life: 25,000 cycles P4-900027



Style F, Panel Sealed, 2 Pole

Moistureproof and dusttight sealed switch features the "F" style bezel, as illustrated on previous page. Button is molded of gray nylon. Total Travel: 0.100" max Operating Force: 4.0 lbs. +/- 1.0 lb. Circuit: DPNO-DB Rating: 10 amps Resistive 5 amps Inductive Mechanical Life: 50,000 cycles Electrical Life: 25,000 cycles P4-600009



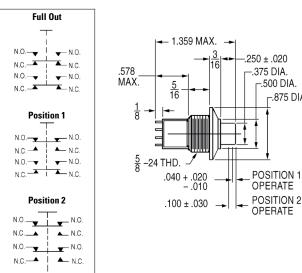
Standard Sealed TwoStep™

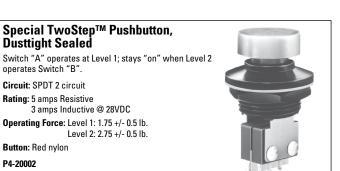
Ideal for applications requiring three modes of operation: "OFF," Level 1 and Level 2. Plunger seal is dusttight and moistureproof. Available in P1 series bezel styles C, F and H. Two pole only.

Standard Operating Force: Position 1: 2.25 lbs. max Position 2: 3.25 lbs. max

Total Travel: 0.140 inches max

Sequence of Action





Splash and Dusttight Sealed, 2 Pole, 4 Circuit

Dusttight Sealed

operates Switch "B".

Circuit: SPDT 2 circuit Rating: 5 amps Resistive

Button: Red nylon

P4-20002

Operating Force: 4.0 lbs. +/- 1.0 lb. Circuit: DPDT 4 circuit Rating: 5 amps Resistive 3 amps Inductive Contacts: Gold plate per MIL-PRF-8805/101-010 Button: Black nylon P4-10044





∟.875 DIA.

SPECIAL PUSHBUTTON ACTUATORS

BUSHING MOUNT PUSHBUTTONS FOR B2 & B3 BASICS

Square Button, Single Pole, 2 Circuit

This subminiature pushbutton switch features a button molded of Lexan.

Operating Force: 24 +/- 4 oz Rating: 5 amps Resistive 3 amps Inductive

Contacts: Gold plate

White and other colors available

P4-300015



Dress ring has O-ring provision for watertight panel seal. Button and case are black. Switch uses MIL-PRF-8805/101 basics. Seal is watertight. Operating force is 4.0 lbs.

6 Pole, Right Angle, PC Mount

Solders into printed circuit board. Basic switches per

P4-900003

MII - PRF-8805/4

P4-10073-X

Circuit: 8 PDT

P4-10082-X

Operating Force: 3.5 lbs. max

Button Color: Choice of nine colors

8 Pole, Positive Detent, Sealed

Rating: 1 amp Resistive Contacts: Gold

(X denotes button color)

Rating: 1 amp Resistive

Bracket: Stainless steel

(X denotes button color)

0.5 amps Inductive

Bushing: Aluminum black anodized

Button: Nylon, choice of nine colors



Vandal Resistant

Brass plated dull nickel housing and button is watertight sealed. Ideal for unattended machines operated by the public.

Total Travel: 0.10" max Operating Force: 4.0 lbs. max Circuit: DPNO-DB Mechanical Life: 250,000 cycles Bezel: 0.969" dia. Button: 0.600" dia.

P4-10155-2

For larger 1.5" dia., SPNO-DB design, see P1-90135-2.



PUSHBUTTONS FOR BAS

1/4-40 Bushing, SPDT 2 Circuit

This subminiature pushbutton switch features an anti-turn device to facilitate installation.

Operating Force: 10 oz max Rating: 8 amps Resistive @ 28VDC Bushing: Stainless steel Bracket: Stainless steel Button: Nylon P4-10029



2 Pole, Right Angle, Bushing Mount— Single and TwoStep™ Versions

Right angle bushing mount assembly of basic switches. Either 2-mode momentary or 3-mode. TwoStep™ (OFF-Level 1-Level 2) action.

Operating Force: 24 +/- 4 oz Rating: 8 amps Resistive Plunger: Red nylon (Other colors available) **Bushing:** Stainless steel

Single Level: P4-10022 TwoStep™: P4-20003

Shroud Protected Button, 2 Pole

Button is protected against accidental actuation by a black anodized shroud.

Operating Force: 4.0 lbs. +/- 1.0 lb. Rating: 5 amps Resistive 2 amps Inductive @ 28VDC



Miniature with Shrouded **Pushbutton, Unsealed**

Total Travel: 0.070" max Operating Force: 2.5 lbs. max Circuit: DPDT-DB Rating: 8 amps Resistive @ 28VDC Button: Black nylon Housing: Clear anodized aluminum Plunger: Unsealed P4-10090



Button: Red nylon P4-900013

Miniature with Shrouded Pushbutton, **Dusttight Sealed**

Total Travel: 0.100" max Operating Force: 4.0 lbs. max Circuit: DPDT-DB Rating: 8 amps Resistive @ 28VDC Button: Black nylon Housing: Black anodized aluminum Plunger: Dusttight sealed P4-900019





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

OTTO: <u>P4-323211</u> <u>P4-334321</u>