ACTUATORS FOR BASIC SWITCHES

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.

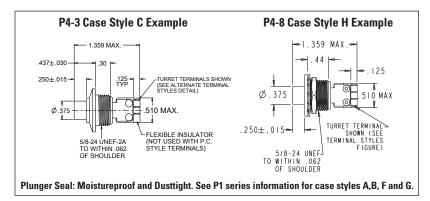


Sealed Construction

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.

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.

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	(X	х х	X	Х	*
	/	/		$\langle \rangle$	
Case	Terminal	Circuit	Switching	Bezel	Button
Style	Style	Form	Action	Color	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	Wire Wrap	3. DPDT 6 Terminal	3. RFI Shielded 3		3. Orange
4. 15/32-32 THD		 DPDT 8 Terminal 	(Momentary)		 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

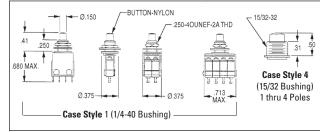
① See P1 Series information for front panel appearance details.

Available in case styles 1 and 4 only.
 Not available in case styles 1 and 4.

Available in circuit form 3 and 4 only

* Add "W" suffix for watertight to IP68S (not available in case styles 1 and 4)

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



AUXILIARY 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

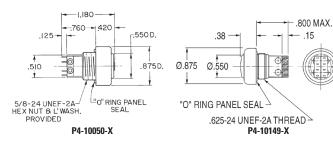
Rugged Sealed Panel

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: DPN0-DB
Rating: 10 amps Resistive 5 amps Inductive
Mechanical Life: 50,000 cycles
Electrical Life: 25,000 cycles
P4-600009



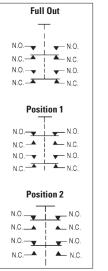
Standard Sealed TwoStep™

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.

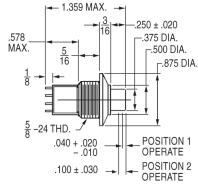
Standard Operating Force: Position 1: 2.25 lbs. max Position 2: 3.25 lbs. max

Total Travel: 0.140 inches max

Sequence of Action







Special TwoStep™ Pushbutton, Dusttight Sealed

Switch "A" operates at Level 1; stays "on" when Level 2 operates Switch "B".

Circuit: SPDT 2 circuit Rating: 5 amps Resistive 3 amps Inductive @ 28VDC Operating Force: Level 1: 1.75 +/- 0.5 lb. Level 2: 2.75 +/- 0.5 lb.

Button: Red nylon

P4-20002

Splash and Dusttight Sealed, 2 Pole, 4 Circuit

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





NOTEWORTHY 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



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.

P4-10155-2

Button: 0.600" dia.

1/4-40 Bushing, SPDT 2 Circuit

anti-turn device to facilitate installation.

Operating Force: 10 oz max

Bushing: Stainless steel

Bracket: Stainless steel Button: Nylon P4-10029

Rating: 8 amps Resistive @ 28VDC

This subminiature pushbutton switch features an

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



Watertight Panel Sealed **Double Pole**

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.

P4-900003



6 Pole, Right Angle, PC Mount

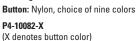
Solders into printed circuit board. Basic switches per MII - PRF-8805/4

Operating Force: 3.5 lbs. max Rating: 1 amp Resistive Contacts: Gold Button Color: Choice of nine colors P4-10073-X (X denotes button color)



8 Pole, Positive Detent, Sealed

Circuit: 8 PDT Rating: 1 amp Resistive 0.5 amps Inductive Bracket: Stainless steel Bushing: Aluminum black anodized





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



2 Pole, Right Angle, Bushing Mount— Single and TwoŠtep™ 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 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

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OTTO:

 P4-10218
 P4-300017
 P4-300045
 P4-400012
 P4-400013
 P4-613121W
 P4-723311W
 P4-723321W
 P4-724121W

 P4-117122
 P4-213122
 P4-213122W
 P4-700004
 P4-800012
 P4-800014
 P4-900060
 P4900063-1
 P4900063-2
 P4

 500009
 P4-500031
 P4-500038
 P4-600021
 P4-700001
 P4-700002
 P4-400014
 P4-400017
 P4-400021
 P4-400022

 P4-400023
 P4-400028
 P4-400028
 P4-400024
 P4-400024
 P4-400024