P8 Compact, Momentary or Push-Pull

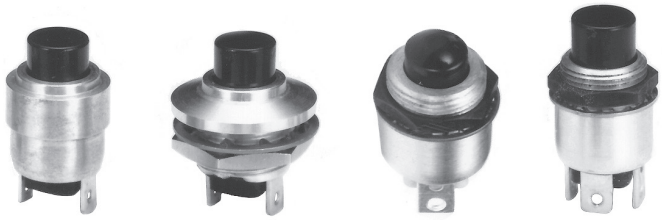
P8 series compact pushbuttons with momentary or push-pull action are a shorter behind panel depth version of OTTO's P1 and P3 series switches. These rugged, snap-action switches are designed for panel boards, control sticks, computers, instruments, pressure switches, and other hand- or machine-operated applications.

Its precision enables the P8 to also be used as a limit switch. P8 pushbuttons have long electrical and mechanical life under extreme conditions, and the optional logic level configuration makes it well suited to interface directly to computers and other solid state devices.

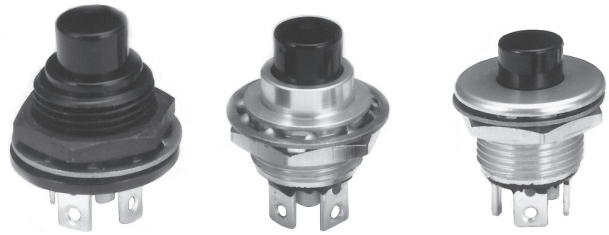
On sealed models, a silicone boot with OTTO's patented "rolling sleeve" principle protects the contact area against contamination at the button area. This boot provides long life and smooth operation over a wide temperature range. Sealed terminals protect the contact area from hostile environments and solder flux on both sealed and unsealed models.

FEATURES:

- Shorter behind panel depth than OTTO's P1/P3 pushbuttons
- Patented "rolling sleeve" button seal
- Contact area sealed at button and terminals
- Positive tactile feedback
- High contact force, low contact resistance and short contact bounce
- Variety of mounting styles, button lengths and shapes
- Mechanical life up to 1 million cycles
- UL1500 ignition protected and UL E61705
- Sealed to IP6K4 or IP6K8S or unsealed
- RoHS compliant



Style A | Style C | 0.50-32 | 0.469-32



Style F | Style G | Style H

Standard Characteristics/Ratings:	
ELECTRICAL RATINGS:	
Load	**Sea Level @ 28VDC or 115VAC, 60/400Hz**
Resistive	10A
Inductive	5A
Lamp	3A
DWV	1000Vrms
Logic Level	10mA @ 5VDC
Electrical Life:	Up to 100,000 cycles *(1,000,000 logic level)*
Mechanical Life:	Up to 1,000,000 cycles
Seal:	Unsealed, IP6K4 or IP6K8S
Operating Temp Range:	-55°C to +85°C
Operating Force:	2.5 lbs. +0.5 /-1.0 lb. or 4.0 lbs. +/- 1.0 lb.
Total Travel:	0.085 +/- 0.015 inches
Overtravel:	0.012 inches min
MATERIALS:	
Case:	Anodized aluminum alloy
Button:	Thermoplastic
Terminals:	Brass with silver or brass with gold over silver for logic level
Terminal Hardware:	Terminal lugs, screws and lockwasher where applicable
Mounting Hardware:	Hex nut, lockwasher, panel seal gasket, flat washer when applicable

Your official representative

ALDERS®
Indicate. Control. Connect.

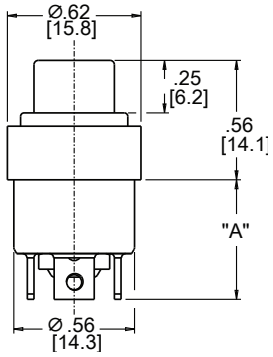
ALDERS electronic GmbH
Arnoldstraße 19
47906 Kempen - Germany

+49 2152 8955-0
sales@alders.de /

P8 Pushbutton Drawings

P8-1, STYLE A BEZEL PRESS FIT BUSHING

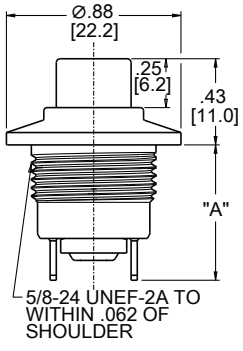
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.558 [14.17]
3 & 6	0.672 [17.07]

P8-3, STYLE C BEZEL 0.625-24 BUSHING

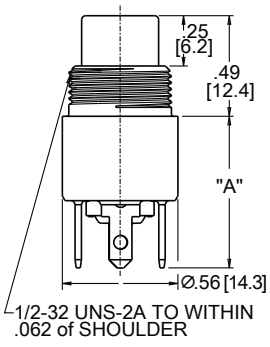
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.679 [17.25]
3 & 6	0.793 [20.14]

SMALL BUSHING P8-4: 0.500-32 BUSHING

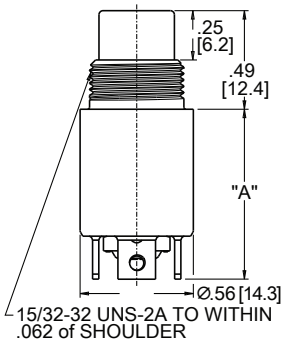
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.625 [15.88]
3 & 6	0.739 [18.77]

SMALL BUSHING P8-5: 0.469-32 BUSHING

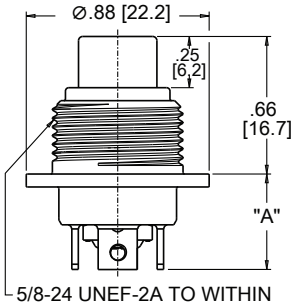
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.845 [21.46]
3 & 6	0.959 [24.36]

P8-6, STYLE F BEZEL 0.625-24 BUSHING

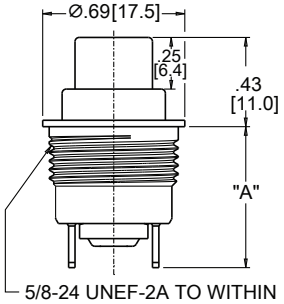
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.451 [11.46]
3 & 6	0.571 [14.50]

P8-7, STYLE G BEZEL 0.625-24 BUSHING

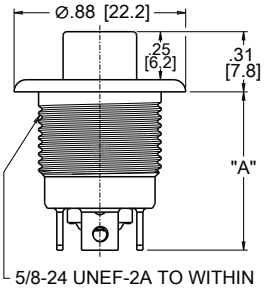
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.683 [17.35]
3 & 6	0.797 [20.24]

P8-8, STYLE H BEZEL 0.625-24 BUSHING

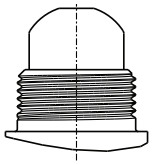
Flat Button Shape Shown
Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



Terminal Styles	"A" inches [mm]
1, 2, 4 & 5	0.808 [20.52]
3 & 6	0.922 [23.42]

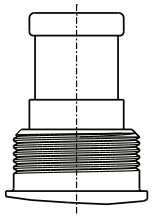
DOME BUTTON SHAPE

Specify Dia.: 0.312" or 0.375"
Height: 0.187" or 0.250"



PUSH-PULL BUTTON SHAPE

Available as Button Style P only.



P8 Pushbutton
Part Number Code

P8 -	X	X	X	X	X	X	X
	Bezel Style	Terminal Style/ Case Color	Circuit Form	Current Rating Level/ Seal Type	Operating Force/Action	Button Color	Button Diameter/ Length/Shape ②
	1. Style A **3.** Style C **4.** 0.50-32 THD **5.** 0.469-32 THD **6.** Style F **7.** Style G **8.** Style H	**1.** Solder/Silver **2.** Screw/Silver **3.** Faston/Silver① **4.** Solder/Black **5.** Screw/Black **6.** Faston/Black ①	**1.** N.O. **2.** N.C. **6.** 2 Circuit	**1.** Std./Unsealed ③ **2.** Std./Dusttight per IP6K4 **3.** Std./Watertight **4.** Logic Level/Dusttight per IP6K4 **5.** Logic Level/Watertight **6.** Std./Dusttight per MIL-PRF-8805, Design 2	**1.** 2.5 lbs./Momentary **2.** 4.0 lbs./Momentary **3.** Push-Pull ②	**1.** Red **2.** Black **3.** Orange **4.** Yellow **5.** Green **6.** Blue **7.** Purple **8.** Gray **9.** White	**A.** 0.375"/0.250"/Flat **B.** 0.375"/0.250"/Dome **C.** 0.375"/0.187"/Flat **D.** 0.375"/0.187"/Dome **E.** 0.312"/0.250"/Flat **F.** 0.312"/0.250"/Dome **G.** 0.312"/0.187"/Flat **H.** 0.312"/0.187"/Dome **P.** 0.375"/0.250"/Flat ②

① Faston receptacles: 0.187" on N.O.; 0.110" on N.C. terminals.
② Push-pull action available in button style "P" only.
③ Unsealed units are not recommended for logic level current duty.

Specifications Subject To Change Without Notice