SEALED DOME PUSHBUTTON SWITCHES

MOMENTARY ACTION, ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

The P9 Dome switches feature a contoured dome style pushbutton and share similar size and characteristics to the P7-D series. There are two button versions: flush button profile and raised button profile, and two bezel versions: standard and small.

The P9 comes with a threaded case for hex nut mounting or with a snap-in case. The switch series features short behind panel depth and offers excellent mechanical and electrical performance while operating under severe conditions.

The P9 Dome series is offered in dusttight and moistureproof sealed construction. Mechanical life is one million operations and the electrical life is 25,000 operations at full rated load of 5 amps resistive or 3 amps inductive.

Watertight sealing to IP68S and IP69K is available simply by adding a "W" suffix to the part number.

The P9 Dome series is available in standard and low-force double break snap-action. All are momentary action. Special contact variations are available. High contact pressure and unique contact design provide low contact resistance for logic level switching capability as well as full rated service. Solder, PC Pin, and 0.110" Quick Connect termination options are also available.

Positive tactile feedback signals the operator when the switch is actuated.

The P9 Dome series is a quality precision switch designed for use in panels, control grips, computers, instruments, heavy equipment and other demanding applications where attractive, rugged pushbutton switches are required.

Features:

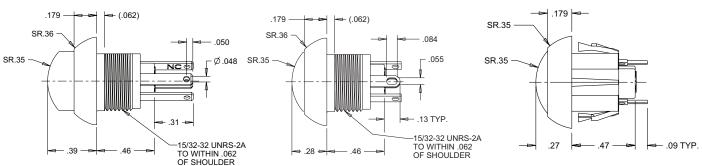
- Flush and raised dome button styles in gloss or matte finish
- Small bezel option
- Double break, momentary action
- All plastic housing & button construction
- Threaded body or snap-in panel mounting
- Withstands extreme shock & vibration
- Positive tactile feedback contact transfer on snap-action models
- Solder, PC Pin & 0.110" Quick Connect terminal styles
- Moistureproof & dusttight to IP64 or watertight to IP68S and IP69K
- UL recognized & CSA certified
- RoHS compliant



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS:	Sea Level @ 28VDC or 115VAC, 60/400Hz	
Load	N.O./N.C.	2 Circuit
Resistive	5A	4A
Inductive	3A	2A
DWV	1050Vrms	
Logic Level	10mA @ 5 VDC	
Electrical Life:	25,000 cycles	
Mechanical Life:	1,000,000 cycles	
Seal:	IP64 or IP68S and IP69K	
Operating Temp Range:	-40°C to +85°C	
Operating Force:	Standard: 1.7 lbs. +/- 0.5 lb.	
	Low Force: 12 oz +/- 4 oz	
Total Travel:	0.080 inches max	
Overtravel:	0.010 inches min	
MATERIALS:		
Case:	Thermoplastic	
Button:	Thermoplastic	
Terminals:	Brass with gold over silver	
Terminal Hardware:	None provided	
Mounting Hardware:	Hex nut, lockwasher Panel gasket when applicable	

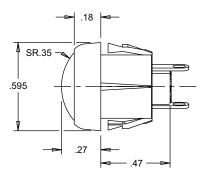
SEALED DOME PUSHBUTTON SWITCHES

CHOICE OF SNAP-ACTION & SHORTING BAR ACTION



Flush Dome Button Style

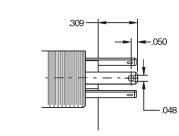
Raised Dome Button Style



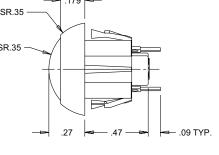
Flush Dome Small Bezel Style

Ø.690±.008 0770 .450±.005 TO FLAT

Threaded Case Terminal Detail



0.110" Quick Connect Detail



Snap-In Case (PC Terminals Shown)

.093 ± .015 LTERMINAL EXTENSION .030 x .020

Recommended Panel Openings *Panel Thickness Recommended Ø DIM. Across D-Flat 0.024* Ø 0.505 0.460 0.031 Ø 0.505 0.460 0.118* Ø 0.505 0.460 0.125 Ø 0.505 0.460

Must use panel gasket C401669 supplied with the switch

- Snap-in case allows front panel mounting into 0.024" or 0.118" thick panels using panel gasket C401669 (C807516 for case styles 9 and A) or into 0.031" and 0.125" thick panels
- 0.110" Quick Connect terminals allow reliable, solderless wire connections
- Flush Neoprene Black Boot P/N C402339
- Raised Neoprene Black Boot P/N C402246
- Flush Silicone Translucent Boot P/N C402599-1
- Raised Silicone Translucent Boot P/N C402611-1

.128 .146 .071 4XØ.040 MIN.

Component Side P.C. Mounting Pattern (As viewed from switch bottom)

ORDERING INFORMATION:

Select the OTTO P9 series features that match your specific application. Standard and special features are shown at right. Specify your choice by building the OTTO Part Number code.

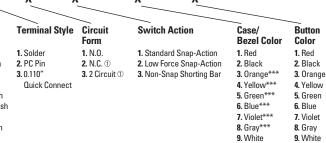
Example: P9-211121 specifies raised dome style button, threaded case, solder terminals, N.O. circuit form, standard snap-action, black case/bezel, red button.

P9

Button & Case Style**

- 1. Flush Dome & Threaded Case, Std. Finish 2. Raised Dome & Threaded Case, Std. Finish
- 3. Flush Dome & Snap-In Case, Std. Finish
- 4. Raised Dome & Snap-In Case, Std. Finish
- 5. Flush Dome & Threaded Case, Matte Finish
- 6. Raised Dome & Threaded Case. Matte Finish
- 7. Flush Dome & Snap-In Case, Matte Finish 8. Raised Dome & Snap-In Case, Matte Finish
- 9. Flush Dome & Snap-In Case, Std. Finish, Small Bezel
- A. Raised Dome & Snap-In Case, Std. Finish, Small Bezel

P9 PART NUMBER CODE



- ① Not available in Shorting Bar version.
- * Add "W" suffix for watertight to IP68S and IP69K (will include panel gasket)
- ** Contact factory for std./matte button/case combination options.
- *** Contact factory for minimum requirement.

Mouser Electronics

Authorized Distributor

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

OTTO:

P9-900052 P9-900053 P9-100011 P9-311221W P9-311229W P9-711125 P9-713222 P9-900099 P9-911124
P9-911223 P9-911226 P9-A11123 P9-900002 P9-100004 P9-100017 P9-100025 P9-100026 P9-100027 P9100034 P9-100043 P9-100044 P9-100054 P9-100057 P9-100070-1 P9-100070-2 P9-100077 P9-100109 P9200015 P9-200019 P9-200050 P9-200051 P9-200052 P9-200053 P9-200054 P9-200056 P9-200064 P9-200066
P9-200073 P9-200077 P9-200081-1 P9-200081-5 P9-200082-2 P9-300018 P9-300055 P9-400003 P9-400016
P9-400017 P9-400018 P9-400026-3 P9-400026-4 P9-900003 P9-900010 P9-900012 P9-900018 P9-900031 P9-900032 P9-900038 P9-900042