SEALED DOME PUSHBUTTON SWITCHES

MOMENTARY ACTION, ATTRACTIVE & RUGGED FOR WET & DUSTY ENVIRONMENTS

The P9 Dome series pushbutton switches feature a contoured dome style pushbutton and share similar size and characteristics to the P7-D series. Major differences are plastic housing construction and the availability of a shorting bar contact arrangement. 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 found in demanding applications.

The P9 Dome series is offered in dusttight and moistureproof sealed construction. One million mechanical operations and an electrical life of 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 and non-snap shorting bar models. 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 available.

Positive tactile feedback signaling the operator when the switch is operated is available in snap-action models but not shorting bar models.

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 or shorting bar, 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

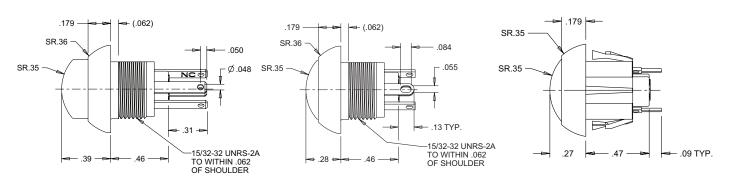




Standard Characteris	stics/Ratings:			
ELECTRICAL RATINGS:	Sea Level @ 28VDC or 115VAC, 60/400Hz			
Load	N.O./N.C.	2 Circuit		
Resistive	5A	4A		
Inductive	3A	2A		
DWV	1050Vrms			
Logic Level	10mA @ 5 VDC			
Electrical Life:	25,000 cycles			
Mechanical Life:	1,000,000 cycles			
Seal:	IP64 or IP68S and IP69K			
Operating Temp Range:	-40°C to +85°C			
Operating Force:	Standard: 1.7 lbs. +/- 0.5 lb.			
	Low Force: 12 oz +/- 4 oz			
	Shorting Bar: 18 oz +/- 6 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



Raised Dome Button Style

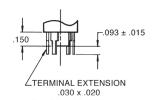
Flush Dome Button Style

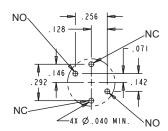
Snap-In Case (PC Terminals Shown)



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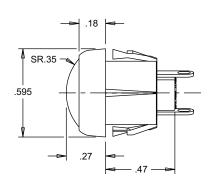
0.110" Quick Connect Detail





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

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Flush Dome Small Bezel Style

R	Recommended Panel Openings					
*Panel Thickness	Recommended 0	DIM. Across D-Flat				
0.024*	0.505	0.460				
0.031	0.505	0.460				
0.118*	0.505	0.460				
0.125	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

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

	Terminal Style	Circuit Form	Switch Action	Case/ Bezel Color	Button Color	
	1. Solder	1. N.O.	1. Standard Snap-Action	1. Red	1. Red	
	2. PC Pin	2. N.C. ①	2. Low Force Snap-Action	2. Black	2. Black	
	3 . 0.110"	3. 2 Circuit ①	3. Non-Snap Shorting Bar	3. Orange**	3. Orange	
	Quick Connect			4. Yellow**	4. Yellow	
				5. Green**	5. Green	
1				6. Blue**	6. Blue	
				7. Violet**	7. Violet	
				8. Gray**	8. Gray	
				9 White	9 White	

X

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

Mouser Electronics

Authorized Distributor

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

OTTO:

P9-113121W P9-113122W P9-113125W P9-213129W P9-313121W P9-313125W P9-313122W P9-413129W P9-211122W P9-111326 P9-321121 P9-121125 P9-3111228 P9-421123W P9-111128 P9-131324W P9-132121 P9-211126 P9-211323 P9-212125 P9-232221 P9-331125W P9-411225W P9-113229 P9-122221 P9-131121 P9-711228 P9-811126 P9-111228 P9-111321W P9-113126W P9-113196 P9-321224 P9-331129 P9-413129 P9-433124 P9-513124 P9-512121 P9-7113126W P9-113196 P9-321224 P9-331129 P9-413129 P9-411128 P9-411228W P9-411322 P9-512121 P9-711312W P9-711322W P9-712121 P9-831122 P9-333121 P9-411128 P9-411228W P9-411322 P9-431222 P9-511121W P9-111144 P9-331128 P9-331224 P9-411226 P9-412122 P9-431122W P9-311121W P9-311122W P9-311122W P9-311222 P9-111126 P9-231222 P9-221126 P9-231123 P9-231123 P9-231228 P9-233121 P9-211225 P9-213129 P9-222225W P9-231121W P9-231129 P9-231221 P9-331124 P9-332199 P9-511226 P9-513128 P9-633229 P9-713125 P9-113129 P9-112124 P9-113129 P9-211125W P9-211125W P9-211125W P9-113129 P9-112124 P9-112222 P9-513129 P9-211125W P9-211125 P9-113129 P9-113129 P9-112124 P9-112222 P9-513129 P9-513224 P9-613129 P9-211127 P9-231121 P9-231125W P9-311321W P9-113128 P9-113192 P9-112124 P9-112222 P9-513224 P9-613129 P9-711221 P9-231121 P9-231125W P9-311321W P9-113128 P9-113129 P9-112124 P9-112222 P9-513224 P9-613129 P9-711221 P9-231121 P9-231125W P9-311321W P9-113128 P9-113129 P9-113129 P9-112124 P9-112222 P9-513224 P9-613129 P9-711221 P9-231121 P9-231125W P9-311321W P9-113128 P9-113192 P9-112124 P9-112222 P9-513224 P9-613129 P9-711221 P9-231121 P9-231125W P9-31321W P9-113128 P9-113192 P9-112122