P9 Sealed, Dome Style

P9 Dome sealed, momentary action, double-break pushbuttons for commercial applications feature a contoured dome style 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 up to 1.25 million operations and the electrical life is up to 25,000 operations at full rated load.

The P9 Dome series is available in standard and low force. 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 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 and button construction
- Threaded body or snap-in panel mounting
- Withstands extreme shock and vibration
- Positive tactile feedback contact transfer on snap-action models
- Mechanical life up to 1.25 million cycles
- Solder, PC Pin and 0.110" Quick Connect terminal styles
- Moistureproof and dusttight to IP6K4 or watertight to IP6K8S and IP6K9K
- RoHS compliant



Flush Dome with Threaded Case

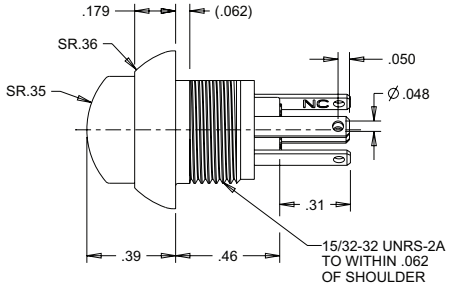


Raised Dome with Threaded Case

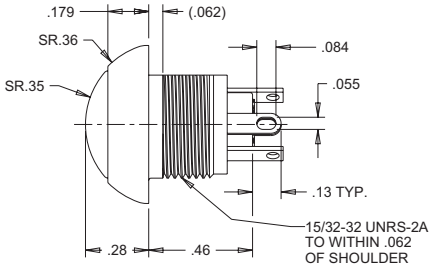
Standard Characteristics/Ratings:			
ELECTRICAL RATINGS:			
Load	**N.O./N.C.**	**2 Circuit**	**Life**
Resistive: 28VDC	5A	4A	25,000 cycles
Resistive: 115VAC, 60Hz	3A	1A	25,000 cycles
Inductive: 28VDC	2A	2A	25,000 cycles
DWV	1050Vrms		
Logic Level	10mA @ 5 VDC		1,250,000 cycles
Mechanical Life:	Up to 1,250,000 cycles		
Seal:	IP6K4 or IP6K8S and IP6K9K		
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		
Terminal Hardware:	None provided		
Mounting Hardware:	Hex nut, lockwasher Panel gasket when applicable		

P9 Pushbutton Drawings

RAISED DOME BUTTON STYLE

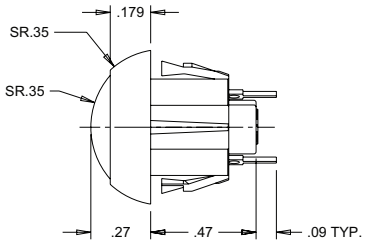


FLUSH DOME BUTTON STYLE

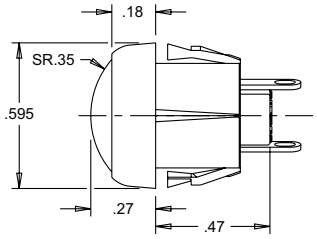


SNAP-IN CASE

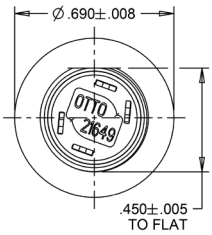
(PC Terminals Shown)



FLUSH DOME SMALL BEZEL STYLE



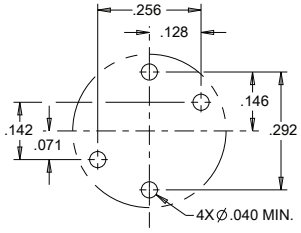
THREADED CASE TERMINAL DETAIL



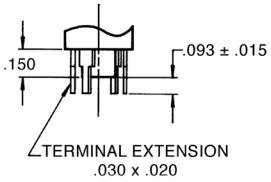
COMPONENT SIDE

P.C. Mounting Pattern

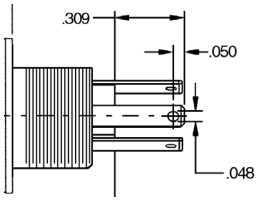
(As viewed from switch bottom)



TERMINAL EXTENSION

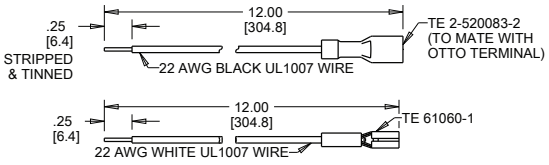


0.110" QUICK CONNECT DETAIL



WIRE LEADS WITH QUICK CONNECT

(For Teminal Styles 4 and 5)



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 C401669-000025 supplied with the switch.

- Snap-in case allows front panel mounting into 0.024" or 0.118" thick panels using panel gasket C401669-000025 *(C807516-000025 for case styles 9 and A)* or into 0.031" and 0.125" thick panels
- .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

P9 Pushbutton
Part Number Code

P9 -	X	X	X	X	X	X	*

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

Terminal Style

1. Solder
2. PC Pin
3. 0.110" Quick Connect *(QC)*
4. 0.110" QC with 2 Wire Leads ①
5. 0.110" QC with 4 Wire Leads ②

Circuit Form

1. N.O.
2. N.C. ③
3. 2 Circuit ③

Switch Action

1. Standard Snap-Action
2. Low Force Snap-Action
3. Non-Snap Shorting Bar

Case/ Bezel Color

1. Red
2. Black
3. Orange***
4. Yellow***
5. Green***
6. Blue***
7. Violet***
8. Gray***
9. White

Button Color

1. Red
2. Black
3. Orange
4. Yellow
5. Green
6. Blue
7. Violet
8. Gray
9. White

① For Circuit Form 1 and 2. *(2 black leads)*
② For Circuit Form 3. *(2 black & 2 white leads)*
③ Not available in Shorting Bar version.
* Add "W" suffix for watertight to IP6K8S and IP6K9K *(will include panel gasket).*
** Contact factory for std./matte button/case combination options.
*** Contact factory for minimum requirement.

Specifications Subject To Change Without Notice