

## 110/316-P-Series

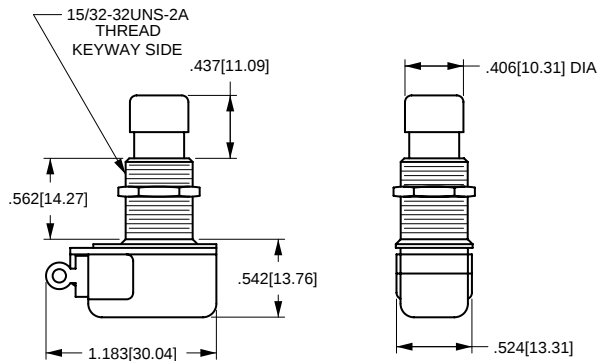


The 110/316-P-Series pushbutton switches are heavy duty, AC/DC rated and suitable as foot-switches. These switches are available with alternate or momentary action. This series is equipped with a quick-make, quick-break contact mechanism which is both non-teasable and self-cleaning. Typical actuation force ranges from 6-8 lbs.

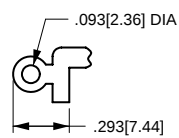
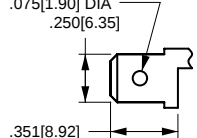
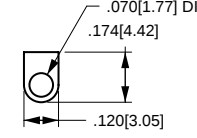
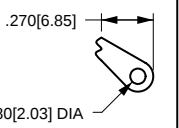
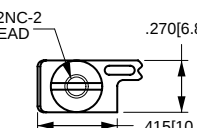
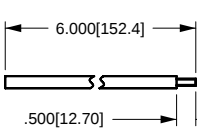
**Specifications**

- Certifications\*: UL, CSA
- Dielectric Strength: 1,000V (minimum)
- Insulation Resistance: 100 Megohms (minimum)
- Base Material: Phenolic
- Actuator Material: Brass/Nickel Plate
- Bushing Material: Brass/Nickel Plate

\* Due to ongoing technological advances, consult factory for certification specifics.

**Dimensional Specifications: in. [mm]**

NOTE:  
KEYWAY  
.072[1.82] X .038[.965] DP

|                                                                                   |                                                                                      |                                                                                       |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |   |    |
| .093[2.36] DIA                                                                    | .075[1.90] DIA<br>.250[6.35]                                                         | .070[1.77] DIA<br>.174[4.42]                                                          |
| .293[7.44]                                                                        | .351[8.92]                                                                           | .120[3.05]                                                                            |
| SOLDER LUG                                                                        | .250 TAB (Q.C.)<br>(SPST only)                                                       | SOLDER LUG<br>(bottom)                                                                |
| TERMINAL TYPE                                                                     |                                                                                      |                                                                                       |
|  |   |    |
| .270[6.85]                                                                        | .270[6.86]                                                                           | 6.000[152.4]                                                                          |
| .080[2.03] DIA                                                                    | .415[10.54]                                                                          | .500[12.70]                                                                           |
| END<br>TERMINAL                                                                   | SCREW (ASSEMBLED)<br>(SPST ONLY)                                                     | INTEGRATED WIRE LEAD<br>(no exposed conductors)                                       |
|                                                                                   |  |  |
|                                                                                   | .500[12.70] DIA                                                                      | .062[1.57]<br>.500[12.70] DIA<br>.038[9.65]                                           |
|                                                                                   | MOUNTING HOLE                                                                        | WITH KEYWAY                                                                           |

**110**

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**P**

| MAINTAINED                                                          | (ON)<br>MOMENTARY<br>NORMALLY OPEN                                                 | (OFF)<br>MOMENTARY<br>NORMALLY CLOSED                                          | TERMINAL                                                     | CIRCUIT<br>& POLES        | RATING                            |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------|-----------------------------------|
| <b>110-P</b><br><b>110-BP</b><br><b>110-SP</b><br><b>111-16-P</b>   | <b>110-PM-OFF</b><br><b>110-PBM-OFF</b><br><b>110-SPM-OFF</b><br><b>111-PM-OFF</b> | <b>110-PM-ON</b><br><b>110-PBM-ON</b><br><b>110-SPM-ON</b><br><b>111-PM-ON</b> | SOLDER LUG-END<br>SOLDER LUG-BTM<br>SCREW TERM.<br>WIRE LEAD | SP-ST                     | 3A 250V<br>6A 125V                |
| <b>160H-P</b><br><b>160H-BP</b><br><b>160H-SP</b><br><b>160H-AP</b> | NONE                                                                               | NONE                                                                           | SOLDER LUG<br>SOLDER LUG-BTM<br>SCREW TERM.<br>WIRE LEAD     | SP-ST                     | 5A 250V<br>10A 125V<br>1/4HP 125V |
| <b>216-PP</b><br><b>216-PPA</b>                                     | <b>216-PM-OFF</b><br><b>216-PAM-OFF</b>                                            | <b>216-PM-ON</b><br><b>216-PAM-ON</b>                                          | SOLDER LUG<br>WIRE LEAD                                      | DP-ST                     | 1A 250V<br>3A 125V                |
| <b>112-P</b><br><b>112-PA</b>                                       | ON-(ON)<br><b>112-PM</b><br><b>112-PAM</b>                                         |                                                                                | SOLDER LUG<br>WIRE LEAD                                      | SP-DT                     | 1A 250V<br>3A 125V                |
| <b>316-PP</b><br><b>316-PPA</b>                                     | ON-(ON)<br><b>316-PM</b><br><b>316-PAM</b>                                         |                                                                                | SOLDER LUG<br>WIRE LEAD                                      | DP-DT<br>DP-DT            |                                   |
| <b>516-PP</b><br><b>516-PPA</b>                                     | <b>516-PM</b><br><b>516-PAM</b>                                                    |                                                                                | SOLDER LUG<br>WIRE LEAD                                      | 2 CIRCUIT<br>1 ON - 1 OFF |                                   |

## NOTES:

Shading indicates standard configurations.

Tab terminals available on all above SPST switches. Add suffix /TABS to end of part number. (ex.) 110-PM-OFF/TABS