

## Small Size - Alloys

### LS-7 Series

#### Compact Alloy and Alloy/Plastics Side Mounts

Built for durability, our LS-7 Series switches utilize stainless steel, or zinc bodies. Ideal for any small tank or vessel destined for a rugged environment. All-stainless steel material of construction of Types 9 and 11 is generally recognized as safe with FDA for food contact regulations.

#### Common Specifications



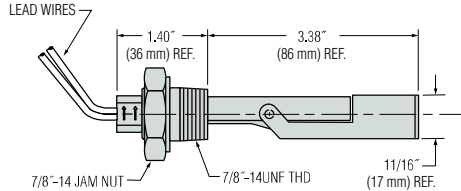


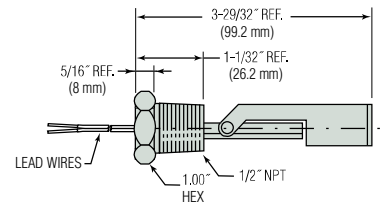


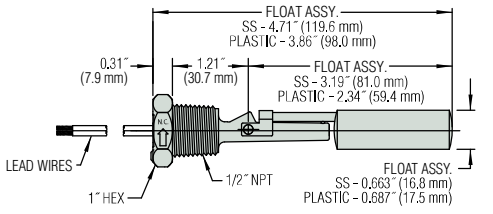


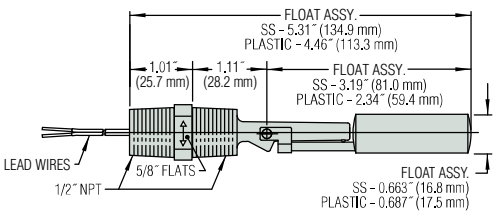


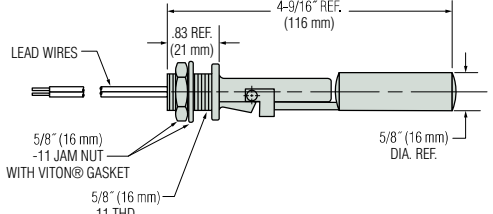
**Switch Rating\*:** SPST, 20VA

**Lead Wire:** 22 AWG, 24"-27" Extended

**Mounting Attitude:** Horizontal.

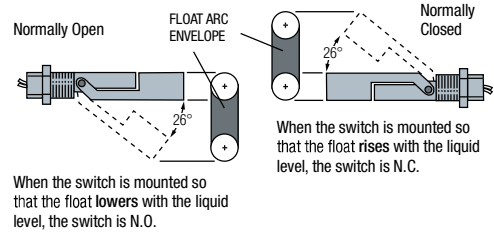
**RoHS:** In compliance with EU-directive 2011/65/EC requirements for chemicals and substances.

\*See "Electrical Data" on Page X-5 for more information.

|   |   |  |
|---|---|--|
| <p><b>Type 6</b><br/>External Mounting</p>  |  <p>CE </p> <p>Zinc alloy body with polypropylene or nylon float.<br/>SAE Mounting.</p>       |  <p>LEAD WIRES</p> <p>1.40" (36 mm) REF.</p> <p>3.38" (86 mm) REF.</p> <p>7/8"-14 JAM NUT</p> <p>7/8"-14 UNF THD</p> <p>11/16" (17 mm) REF.</p>  |
| <p><b>Type 8</b><br/>External Mounting</p>  |  <p>UL  CE</p> <p>Zinc alloy body with nylon or polypropylene float.</p>                   |  <p>LEAD WIRES</p> <p>3-29/32" REF. (99.2 mm)</p> <p>5/16" REF. (8 mm)</p> <p>1-1/32" REF. (26.2 mm)</p> <p>1.00" HEX</p> <p>1/2" NPT</p>   |
| <p><b>Type 8</b><br/>External Mounting</p>  |  <p>UL  CE</p> <p>316 Stainless Steel body with 316 SS, nylon or polypropylene float.</p> |  <p>LEAD WIRES</p> <p>0.31" (7.9 mm)</p> <p>1.21" (30.7 mm)</p> <p>1" HEX</p> <p>1/2" NPT</p> <p>FLOAT ASSY.<br/>SS - 4.71" (119.6 mm)<br/>PLASTIC - 3.86" (98.0 mm)</p> <p>FLOAT ASSY.<br/>SS - 3.19" (81.0 mm)<br/>PLASTIC - 2.34" (59.4 mm)</p> <p>FLOAT ASSY.<br/>SS - 0.663" (16.8 mm)<br/>PLASTIC - 0.687" (17.5 mm)</p>       |
| <p><b>Type 9</b><br/>External Mounting</p>  |  <p>UL  CE</p> <p>316 Stainless Steel body with 316 SS, nylon or polypropylene float.</p> |  <p>LEAD WIRES</p> <p>1.01" (25.7 mm)</p> <p>1.11" (28.2 mm)</p> <p>1/2" NPT</p> <p>5/8" FLATS</p> <p>FLOAT ASSY.<br/>SS - 5.31" (134.9 mm)<br/>PLASTIC - 4.46" (113.3 mm)</p> <p>FLOAT ASSY.<br/>SS - 3.19" (81.0 mm)<br/>PLASTIC - 2.34" (59.4 mm)</p> <p>FLOAT ASSY.<br/>SS - 0.663" (16.8 mm)<br/>PLASTIC - 0.687" (17.5 mm)</p> |
| <p><b>Type 11</b><br/>Internal Mounting</p> |  <p>UL  CE</p> <p>316 Stainless Steel body with 316 S.S. float.</p>                       |  <p>LEAD WIRES</p> <p>83 REF. (21 mm)</p> <p>4-9/16" REF. (116 mm)</p> <p>5/8" (16 mm) -11 JAM NUT WITH VITON® GASKET</p> <p>5/8" (16 mm) -11 THD</p> <p>5/8" (16 mm) DIA. REF.</p>  |

**Switch Operation**

Depending on the mounting position, the float on these switches can either rise or lower with the liquid level. By rotating the switch 180°, the switch operation can be Normally Open or Normally Closed.



**How To Order – Select Part Number based on specifications required.**

| Mounting Type | Materials           |                     |                                   | Min. Liquid Sp. Gr.               | Operating Temperature             | Operating Pressure, Max.          | Float Arc Envelope | Part Number     |
|---------------|---------------------|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------|-----------------|
|               | Stem and Mounting   | Float               | Lead Wire Jacket                  |                                   |                                   |                                   |                    |                 |
| 6             | Zinc Alloy*         | Nylon               | TPE <sup>†</sup>                  | .65                               | -40°F to +250°F (-40°C to +121°C) | 100 psi @ 70°F                    | 1.36               | <b>155660</b> ⚡ |
|               |                     | Polypropylene       |                                   | .75                               | -40°F to +225°F (-40°C to +107°C) | 100 psi @ 70°F                    | 1.36               | <b>179870</b>   |
| 8             | Zinc Alloy*         | 316 S.S.            | TPE <sup>†</sup>                  | .80                               | -40°F to +250°F (-40°C to +121°C) | 300 psi @ 70°F                    | 1.43               | <b>249315</b>   |
|               |                     | Nylon               |                                   | .65                               | -40°F to +250°F (-40°C to +121°C) | 100 psi @ 70°F                    | 1.40               | <b>160950</b> ⚡ |
|               |                     | Polypropylene       | .55                               | -40°F to +225°F (-40°C to +107°C) | 100 psi @ 70°F                    | 1.40                              | <b>162795</b> ⚡    |                 |
|               |                     | 316 Stainless Steel | 316 S.S.                          | TPE <sup>†</sup>                  | .80                               | -40°F to +250°F (-40°C to +121°C) | 300 psi @ 70°F     | 1.43            |
|               | Nylon               | .65                 | -40°F to +250°F (-40°C to +121°C) |                                   | 100 psi @ 70°F                    | 1.40                              | <b>247390</b>      |                 |
|               | Polypropylene       | .55                 | -40°F to +250°F (-40°C to +121°C) |                                   | 100 psi @ 70°F                    | 1.40                              | <b>247380</b>      |                 |
| 9             | 316 Stainless Steel | 316 S.S.            | TPE <sup>†</sup>                  | .80                               | -40°F to +250°F (-40°C to +121°C) | 300 psi @ 70°F                    | 1.43               | <b>164870</b> ⚡ |
|               |                     | Nylon               |                                   | .65                               | -40°F to +250°F (-40°C to +121°C) | 100 psi @ 70°F                    | 1.40               | <b>164850</b> ⚡ |
|               |                     | Polypropylene       |                                   | .55                               | -40°F to +225°F (-40°C to +107°C) | 100 psi @ 70°F                    | 1.40               | <b>164860</b> ⚡ |
| 11            | 316 Stainless Steel |                     | Teflon®                           | .80                               | -40°F to +250°F (-40°C to +121°C) | 300 psi @ 70°F                    | 1.65               | <b>179445</b>   |

<sup>†</sup>Thermoplastic Elastomer Zip Cord.

⚡ – Stock Items.

**\*Zinc Alloy Material Note:**

When mounted in certain cathodic metals, including stainless steel, and used in water-based liquids, galvanic corrosion may occur. Consult factory for information.

**LEVEL SWITCHES – SINGLE POINT**