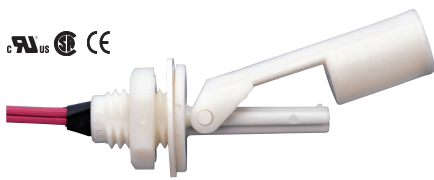


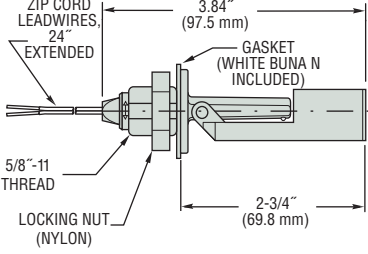
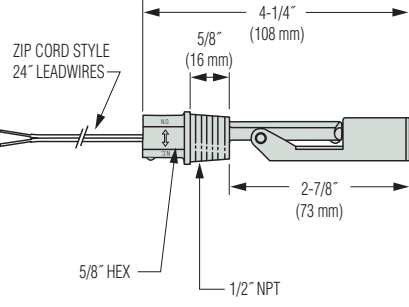
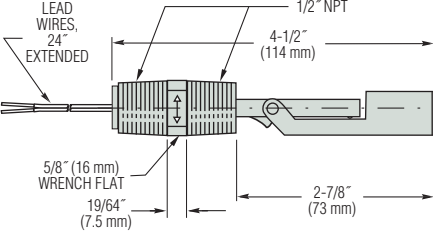


Small Size – Engineered Plastics

LS-7 Series–Compact Side Mounts are the Solution to Many Small Tanks

These low-cost units are ideal for high volume use in small tanks and vessels. Engineered plastics construction offers broad compatibility in water, oils and chemicals.

LEVEL SWITCHES – SINGLE POINT

| Type 3 Internal Mounting | Type 5 External Mounting | Type 7 External Mounting |
|---|---|---|
|  <p>Polypropylene, Nylon or Versaplast™.</p> |  <p>Polypropylene, Nylon or Versaplast™.</p> |  <p>Polypropylene or Nylon; conduit connection.</p> |
|  <p>ZIP CORD LEADWIRES, 24" EXTENDED 3.84" (97.5 mm) GASKET (WHITE BUNA N INCLUDED) 5/8"-11 THREAD LOCKING NUT (NYLON) 2-3/4" (69.8 mm)</p> |  <p>ZIP CORD STYLE 24" LEADWIRES 4-1/4" (108 mm) 5/8" (16 mm) 2-7/8" (73 mm) 5/8" HEX 1/2" NPT</p> |  <p>LEAD WIRES, 24" EXTENDED 1/2" NPT 4-1/2" (114 mm) 5/8" (16 mm) WRENCH FLAT 19/64" (7.5 mm) 2-7/8" (73 mm)</p> |

Common Specifications

Switch Rating*: SPST, 20VA

Lead Wire Gauge: No. 22 AWG

Mounting Attitude: Horizontal.

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

Approvals

| Material | CE | UL Recognized File No. E45168 | cUL Recognized | CSA Listed-File No. 30200 | NSF Listed Mat. Std. 61 |
|---------------|----|-------------------------------|----------------|---------------------------|-------------------------|
| Nylon | X | X | X | X | |
| Polypropylene | X | X | X | X | X |
| Noryl® | X | X | X | | X |
| Versaplast™ | X | X | X | | |

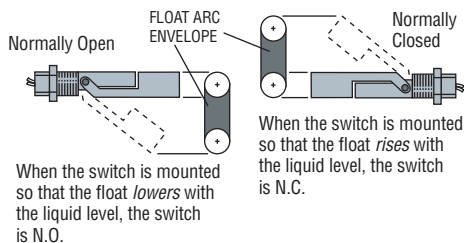
Media Compatibility

| Media | LS-7 Compatible Types |
|---|-----------------------|
| Oil, Fuel, Hydrocarbons | Nylon |
| Broad Range of Chemicals and Water | Polypropylene |
| Limited Chemicals and Water | Noryl® |
| Oil, Antifreeze, High Temperatures, Corrosive Fluids, Various Chemicals | Versaplast™ |

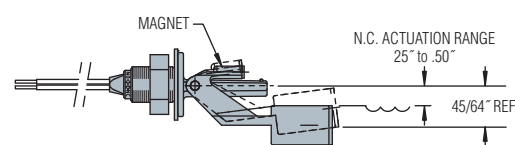
Switch Operation

Depending on the mounting position, the float on these switches can rise or lower with the liquid level. By rotating the switch 180°, the switch operation can be Normally Open or Normally Closed (except Type 12).

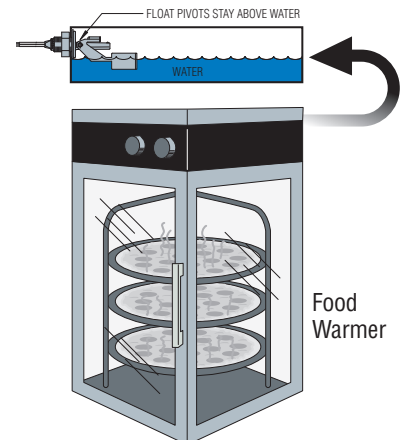
Types 3, 5, 7, 10 and 13



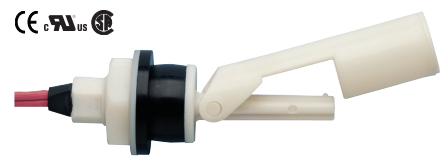
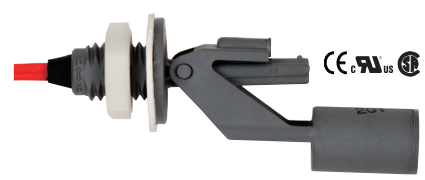

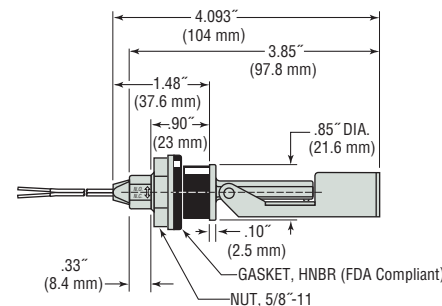
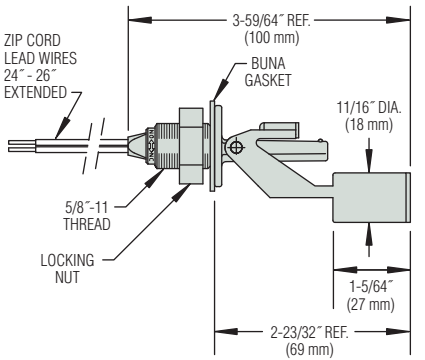
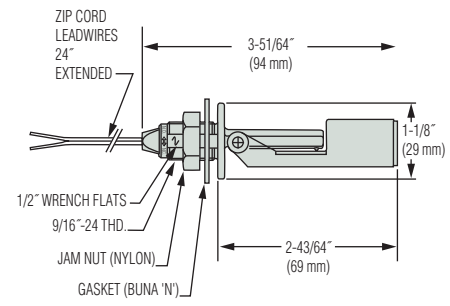
Type 12 – N.C. "Drop Float" Design



The LS-7 Type 12 is ideal for use on food warmers, hot water heaters, steam cookers, small boilers or wherever water evaporation occurs. The switch is used effectively for either high fluid level alarms or water make up systems. The units are made of Noryl®, which carries NSF approval for use in potable water, and are supplied with FDA-approved Buna gaskets.



- ▶ Nylon is ideal for oils and fuels.
- ▶ NSF Standard 61 polypropylene is ideal for potable water and broad chemicals.
- ▶ Versaplast™ is ideal for corrosive fluids, hot water, antifreeze, chemicals and oils.

| Type 10 External Mounting | Type 12 Internal Mounting | Type 13 Internal Mounting |
|--|--|--|
|  <p>Externally mounts through and seals non-threaded holes using a HNBR compression gasket.</p> |  <p>Side mount "Drop Down" design for calcifying hot water applications. NSF compliant Noryl®.</p> |  <p>Polypropylene or Nylon.</p> |
|  <p>Note: Recommended hole size = 7/8" dia. x 1/32" - 5/32" thick panel.</p> |  |  |

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 | | | | | |
| 3 | Nylon | TPE† | | .65 | -40°F to +250°F (-40°C to +121.1°C) | 100 psi @ 70°F (6.8 bar @ 20°C) | 2.20 | 165570 ⚡ |
| | Polypropylene | | | 164520 ⚡ | | | | |
| | Versaplast™ | | | 182600 | | | | |
| 5 | Polypropylene | TPE† | | .55 | -40°F to +225°F (-40°C to +107.2°C) | 100 psi @ 70°F (6.8 bar @ 20°C) | 1.25 | 131100 ⚡ |
| | Nylon | | | 140620 ⚡ | | | | |
| | Versaplast™ | Teflon® | .80 | -40°F to +300°F (-40°C to +148.9°C) | 177100 ⚡ | | | |
| 5 - BSP | Versaplast™ | TPE† | | .80 | -40°F to +250°F (-40°C to +121.1°C) | 100 psi @ 70°F (6.8 bar @ 20°C) | 1.25 | 189422 |
| 7 | Polypropylene | TPE† | | .55 | -40°F to +225°F (-40°C to +107.2°C) | 100 psi @ 70°F (6.8 bar @ 20°C) | 1.50 | 160450 ⚡ |
| | Nylon | | | 160460 ⚡ | | | | |
| 10 | Polypropylene | TPE† | | .55 | -40°F to +225°F (-40°C to +107.2°C) | 50 psi @ 70°F (3.4 bar @ 20°C) | 2.08 | 165800 ⚡ |
| | Nylon | | | 165900 | | | | |
| 12 | Noryl® | TPE† | | .80 | -40°F to +225°F (-40°C to +107.2°C) | 100 psi @ 70°F (6.8 bar @ 20°C) | .70 | 191080 ⚡ |
| 13 | Polypropylene | TPE† | | .55 | -40°F to +225°F (-40°C to +107.2°C) | 100 psi @ 70°F (6.8 bar @ 20°C) | 2.20 | 197050 |

See alloy versions on next page.

* Polysulfone and Ryton® R-4 are available upon request.
 † Thermoplastic Elastomer Zip Cord, 22 AWG.
 Note: NSF C2 Versions available. Contact factory.

⚡ – Stock Items.