

#### **ProSense Float Level Switches**

ProSense float level switches provide a low-cost general purpose solution for single point monitoring of liquid level in a variety of applications. Powerful permanent magnets within the float actuate a highly reliable and repeatable hermetically sealed reed switch as the float rises and lowers with liquid level. These switches are available in several different material constructions for compatibility with many types of liquids, a wide temperature range, and system pressure requirements. Vertical and horizontal mounting styles with several mounting thread variations are offered for ease of installation. Reed switches carry electrical ratings for both AC and DC voltage for adaptability to many control interface applications. These float switches are available with either normally open or normally closed operation, and most can be converted to the opposite operation in the field. Designed to be shock and vibration resistant, ProSense float level switches ensure long and trouble-free service.

#### **Features**

- Low-cost solution for general purpose single point liquid level monitoring
- Magnetically operated, highly reliable and repeatable hermetically sealed reed switch
- Vertical and horizontal mounting styles with a variety of mounting threads
- Several material constructions for compatibility with different liquids
- Electrical ratings for AC and DC voltage
- Most switches easily converted in the field from normally closed to normally open operation



Click on the thumbnail or go to https://www.automationdirect.com/VID-LE-0001 for a short video on ProSense Level Switches

#### **Operation**

ProSense float level switches are shipped configured for normally closed switch operation. Except where noted, most models can be easily converted to normally open operation in the field.

#### Vertical Mount Switches

For Vertical Mount switches, normally closed is defined as the switch mounted in a vertical position with the mounting threads above the float (top mount) and the float in the "dry" position at the bottom of the stem (Figure 1). When the liquid raises the float, the switch will open.

To change the operation of the switch to normally open (depending on model), remove the C-clip, remove the float from the stem, flip the float 180 degrees, re-install the float on the stem and replace the C-clip. Now the switch will be normally open in the "dry" position and will close when the liquid raises the float.

Vertical Mount switches can also be mounted with the mounting threads below the float (bottom mount) as in the bottom of a tank. If bottom mounted, switch operation will be the opposite of top mounted installation described above.

#### Horizontal Mount Switches

For Horizontal Mount switches installed in the side of a tank (side-mounted), normally closed is defined as when the float arm is below and parallel with the stem in the "dry" position (Figure 2). When the liquid raises the float, the switch will open.

To change the operation of the switch, rotate the installed position of the switch 180 degrees so the float arm is above and hanging at an angle with the stem. Now the switch will be normally open in the "dry" position and will close when the liquid raises the float.



Figure 1: Vertical (Top) Mount Switch Operation

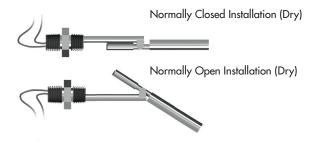
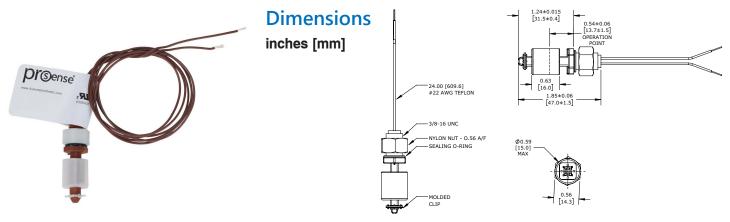


Figure 2: Horizontal Mount Switch Operation

|            |         |                       |                       | Float Lev                             | el Switc             | h Spec                       | ifications  |  |  |              |
|------------|---------|-----------------------|-----------------------|---------------------------------------|----------------------|------------------------------|---|--|--|--------------|
| Part No.   | Price   | Float Material        | Stem<br>Material      | Temperature<br>Range                  | Pressure             | Float<br>Specific<br>Gravity | Electrical<br>Rating*   | Mounting<br>Hole   | Approvals  | Weight (lbs) |
| FLS-VS-100 | \$28.00 | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to<br>105°C] | 50 psig<br>[3.4 bar] | 0.7                          | SPST-NC,<br>15W max<br>120VAC,<br>0.12 A<br>100VDC, 0.1 A<br>24VDC, 0.3 A<br>12VDC, 0.3 A | Ø 0.375 in<br>[9.53 mm]<br>(Install w 30°<br>max from<br>vertical) | cURus, CE<br>(See Approvals<br>table for<br>details) | 0.02         |

<sup>\*</sup> Normally closed switch only. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

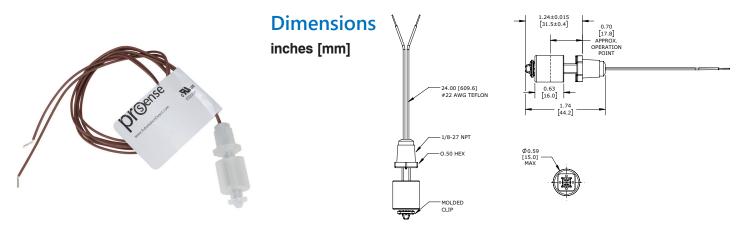
Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



|            |         |                       |                       | Float Lev                             | el Switc             | h Spec                       | ifications  |                       |  |           |              |
|------------|---------|-----------------------|-----------------------|---------------------------------------|----------------------|------------------------------|---|-----------------------|--|-----------|--------------|
| Part No.   | Price   | Float Material        | Stem Material         | Temperature<br>Range                  | Pressure             | Float<br>Specific<br>Gravity | Electrical<br>Rating*   | Lead Wires            | Mounting<br>Thread                                     | Approvals | Weight (lbs) |
| FLS-VS-200 | \$47.00 | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to<br>105°C] | 50 psig<br>[3.4 bar] | 0.7                          | SPST-NC,<br>15W max<br>120VAC,<br>0.12 A<br>100VDC, 0.1 A<br>24VDC, 0.3 A<br>12VDC, 0.3 A | 22AWG,<br>Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | ( : E     |              |

<sup>\*</sup> Normally closed switch only. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



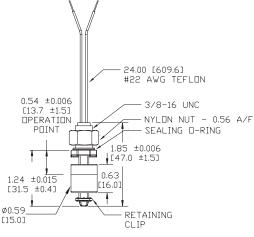
|            | Float Level Switch Specifications |                       |                       |                                       |                      |                              |   |            |  |  |              |  |  |  |
|------------|-----------------------------------|-----------------------|-----------------------|---------------------------------------|----------------------|------------------------------|---|------------|--|--|--------------|--|--|--|
| Part No.   | Price                             | Float Material        | Stem<br>Material      | Temperature<br>Range                  | Pressure             | Float<br>Specific<br>Gravity | Electrical<br>Rating*   | Lead Wires | Mounting<br>Hole   | Approvals  | Weight (lbs) |  |  |  |
| FLS-VS-300 | \$22.00                           | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to<br>105°C] | 50 psig<br>[3.4 bar] | 0.6                          | SPST-NO,<br>15W max<br>120VAC,<br>0.12 A<br>100VDC, 0.1 A<br>24VDC, 0.3 A<br>12VDC, 0.3 A |            | Ø 0.375 in<br>[9.53 mm]<br>(Install w 30°<br>max from<br>vertical) | cURus, CE<br>(See approvals<br>table for<br>details) | 0.02         |  |  |  |

<sup>\*</sup> Normally open switch only. Cannot be converted to function as normally closed. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



### Dimensions inches [mm]



|            | Float Level Switch Specifications |                       |                       |                                       |                      |                              |   |                       |  |   |              |  |  |
|------------|-----------------------------------|-----------------------|-----------------------|---------------------------------------|----------------------|------------------------------|---|-----------------------|--|---|--------------|--|--|
| Part No.   | Price                             | Float Material        | Stem Material         | Temperature<br>Range                  | Pressure             | Float<br>Specific<br>Gravity | Electrical<br>Rating*   | Lead Wires            | Mounting<br>Thread                                     | Approvals   | Weight (lbs) |  |  |
| FLS-VS-400 | \$39.00                           | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to<br>105°C] | 50 psig<br>[3.4 bar] | 0.6                          | SPST-NO,<br>15W max<br>120VAC,<br>0.12 A<br>100VDC, 0.1 A<br>24VDC, 0.3 A<br>12VDC, 0.3 A | 22AWG,<br>Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CE<br>(See Approvals<br>table for details) |              |  |  |

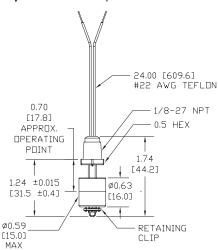
<sup>\*</sup> Normally open switch only. Cannot be converted to function as normally closed. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### **Dimensions**

inches [mm]



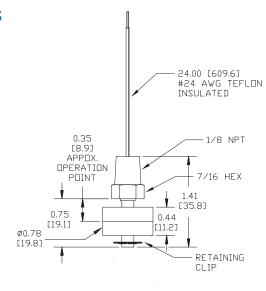
|   | Float Level Switch Specifications |         |                       |                  |                                       |                       |                              |   |             |  |   |              |  |  |
|---|-----------------------------------|---------|-----------------------|------------------|---------------------------------------|-----------------------|------------------------------|---|-------------|--|---|--------------|--|--|
| ı | Part No.                          | Price   | Float Material        | Stem<br>Material | Temperature<br>Range                  | Pressure              | Float<br>Specific<br>Gravity | Electrical<br>Rating*   | Lead Wires  | Mounting<br>Thread                                     | Approvals                                     | Weight (lbs) |  |  |
| ŀ | FLS-VS-500                        | Retired | Polypropylene<br>(PP) | 316SS            | -40°F to 221°F<br>[-40°C to<br>105°C] | 100 psig<br>[6.9 bar] | 0.7                          | SPST-NC,<br>15W max<br>120VAC,<br>0.12 A<br>100VDC, 0.1 A<br>24VDC, 0.3 A<br>12VDC, 0.3 A | Toflon 2/in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See approvals<br>table for<br>details) | 0.04         |  |  |

<sup>\*</sup> Normally closed switch only. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



### Dimensions inches [mm]



|            | Float Level Switch Specifications |                |                  |                                       |                        |                              |  |                      |  |   |              |  |  |
|------------|-----------------------------------|----------------|------------------|---------------------------------------|------------------------|------------------------------|--|----------------------|--|---|--------------|--|--|
| Part No.   | Price                             | Float Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires           | Mounting<br>Thread                                     | Approvals                                     | Weight (lbs) |  |  |
| FLS-VD-100 | \$112.00                          | Buna-N         | Brass            | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.5                          | SPST-NO,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Halar 72in | 3/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See approvals<br>table for<br>details) | 0.04         |  |  |

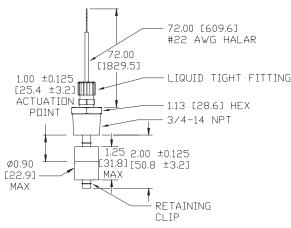
<sup>\*</sup> Normally open switch only. Cannot be converted to function as normally closed. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### **Dimensions**

inches [mm]



Ideal for 55 gallon drum high level applications.

| Float Level Switch Specifications |          |                   |                  |                                       |                        |                              |  |                      |  |  |                 |
|-----------------------------------|----------|-------------------|------------------|---------------------------------------|------------------------|------------------------------|--|----------------------|--|--|-----------------|
| Part No.                          | Price    | Float<br>Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity |  |                      | Mounting<br>Thread                                     |  | Weight<br>(lbs) |
| FLS-VD-200                        | \$130.00 | Buna-N            | Brass            | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.5                          | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Halar 72in | 3/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See<br>approvals<br>table for<br>details) | 4.0             |

<sup>\*</sup> Normally closed switch only. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

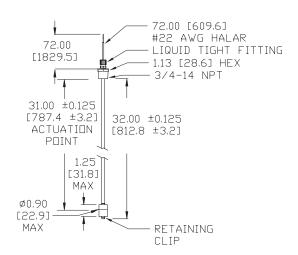
Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### Ideal for 55 gallon drum low level applications.

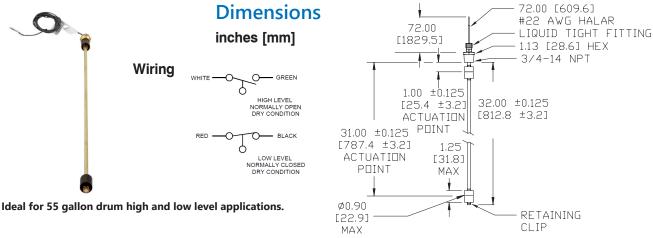
### Dimensions

inches [mm]



|            | Float Level Switch Specifications |                |                  |                                       |                        |                              |   |            |  |   |              |  |
|------------|-----------------------------------|----------------|------------------|---------------------------------------|------------------------|------------------------------|---|------------|--|---|--------------|--|
| Part No.   | Price                             | Float Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical Rating*  | Lead Wires | Mounting<br>Thread                                     | Approvals                                     | Weight (lbs) |  |
| FLS-VD-300 | \$159.00                          | Buna-N         | Brass            | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.5                          | (1) SPST-NC (Bottom),<br>(1) SPST-NO (Top),<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A |            | 3/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See approvals<br>table for<br>details) | 4.0          |  |

<sup>\*</sup> Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS. Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



| Ī |            | Float Level Switch Specifications |                |       |                                       |                        |                              |  |                      |  |  |              |  |  |
|---|------------|-----------------------------------|----------------|-------|---------------------------------------|------------------------|------------------------------|--|----------------------|--|--|--------------|--|--|
|   | Part No.   | Price                             | Float Material |       | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical Rating*   |                      | Mounting<br>Thread                                     | Approvals                                  | Weight (lbs) |  |  |
|   | FLS-VD-400 | \$150.00                          | 316SS          | 316SS | -40°F to 302°F<br>[-40°C to<br>150°C] | 250 psig<br>[17.2 bar] | 0.73                         | SPST-NO,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Halar 72in | 3/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See approvals<br>table for details) |              |  |  |

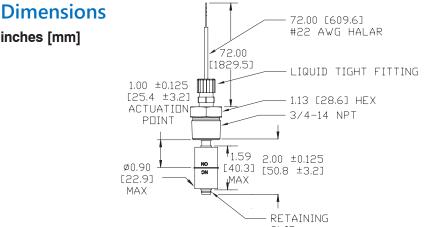
<sup>\*</sup> Normally open switch only. Cannot be converted to function as normally closed. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

inches [mm]

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



Ideal for 55 gallon drum high level applications.



|            | Float Level Switch Specifications |                 |                  |                                       |                        |                              |  |                      |  |   |              |  |
|------------|-----------------------------------|-----------------|------------------|---------------------------------------|------------------------|------------------------------|--|----------------------|--|---|--------------|--|
| Part No.   | Price                             | FINST WISTORISI | Stem<br>Material | Temperature<br>Range                  |                        | Float<br>Specific<br>Gravity | Electrical Rating*   | Lead Wires           | Mounting<br>Thread                                     | Approvals                                     | Weight (lbs) |  |
| FLS-VD-500 | \$178.00                          | 316SS           | 316SS            | -40°F to 302°F<br>[-40°C to<br>150°C] | 250 psig<br>[17.2 bar] | 0.73                         | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Halar 72in | 3/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See approvals<br>table for<br>details) | 4.0          |  |

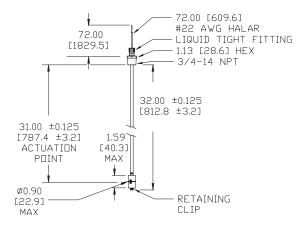
<sup>\*</sup> Normally closed switch only. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### **Dimensions**

inches [mm]



| Ideal for 55 gallor | າ drum lov | v level app | olications. |
|---------------------|------------|-------------|-------------|
|---------------------|------------|-------------|-------------|

|            | Float Level Switch Specifications |                |               |                                       |                        |                              |   |                      |  |  |              |  |
|------------|-----------------------------------|----------------|---------------|---------------------------------------|------------------------|------------------------------|---|----------------------|--|--|--------------|--|
| Part No.   | Price                             | Float Material | Stem Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical Rating*  | Lead Wires           | Mounting<br>Thread                                     | Approvals                                  | Weight (lbs) |  |
| FLS-VD-600 | \$223.00                          | 316SS          | 316SS         | -40°F to 302°F<br>[-40°C to<br>150°C] | 250 psig<br>[17.2 bar] | 0.73                         | (1) SPST-NC (Bottom),<br>(1) SPST-NO (Top),<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Halar 72in | 3/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See approvals<br>table for details) |              |  |

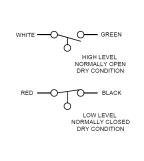
<sup>\*</sup> Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS. Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.

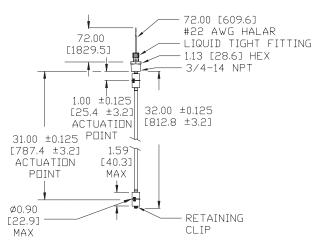


### Dimensions

#### inches [mm]

Wiring





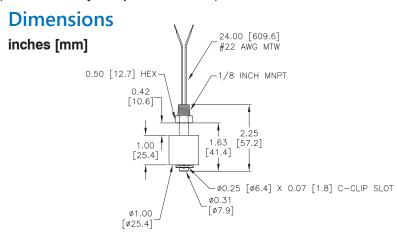
Ideal for 55 gallon drum high and low level applications.

|            | Float Level Switch Specifications |                       |                       |                                       |                       |                              |  |               |  |   |              |  |  |  |
|------------|-----------------------------------|-----------------------|-----------------------|---------------------------------------|-----------------------|------------------------------|--|---------------|--|---|--------------|--|--|--|
| Part No.   | Price                             | Float<br>Material     | Stem Material         | Temperature<br>Range                  | Pressure              | Float<br>Specific<br>Gravity |  | Lead<br>Wires | Mounting<br>Thread                                     | Approvals   | Weight (lbs) |  |  |  |
| FLS-VM-100 | \$14.50                           | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to<br>105°C] | 100 psig<br>[6.9 bar] | 0.8                          | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | MTW 24in      | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1          |  |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





|            | Float Level Switch Specifications |        |  |                                       |                        |                              |  |             |  |   |                 |  |  |
|------------|-----------------------------------|--------|--|---------------------------------------|------------------------|------------------------------|--|-------------|--|---|-----------------|--|--|
| Part No.   | Price                             |        |  | Temperature<br>Range*                 | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating¹  | Lead Wires  | Mounting<br>Thread                                     | Approvals   | Weight<br>(lbs) |  |  |
| FLS-VM-200 | \$17.50                           | Buna-N | Polybutylene<br>Terephthalate<br>(PBT) | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.4 bar] | 0.45                         | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Not for use in hot water at temperatures above 149°F [65°C]

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



# Dimensions inches [mm] 0.50 [12.7] HEX 0.42 [10.6] 1.63 [57.2] [41.4] 0.025 [06.4] X 0.07 [1.8] C-CLIP SLOT [07.9]

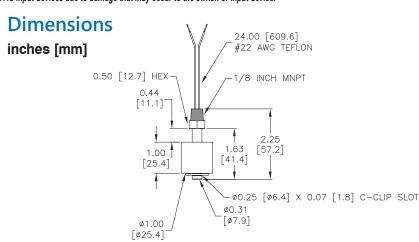
<sup>1</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

|            | Float Level Switch Specifications |                   |                  |                                       |                        |                              |  |             |  |   |                 |  |  |
|------------|-----------------------------------|-------------------|------------------|---------------------------------------|------------------------|------------------------------|--|-------------|--|---|-----------------|--|--|
| Part No.   | Price                             | Float<br>Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires  | Mounting<br>Thread                                     | Approvals   | Weight<br>(lbs) |  |  |
| FLS-VM-300 | \$32.00                           | Buna-N            | Brass            | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.45                         | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

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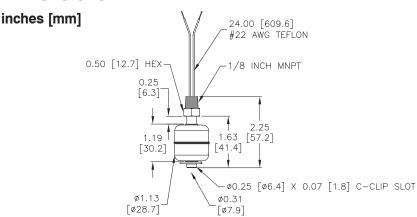
|                   | Float Level Switch Specifications |                   |                  |                                       |                        |                              |  |                       |  |   |                 |  |  |
|-------------------|-----------------------------------|-------------------|------------------|---------------------------------------|------------------------|------------------------------|--|-----------------------|--|---|-----------------|--|--|
| Part No.          | Price                             | Float<br>Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires            | Mounting<br>Thread                                     | Approvals   | Weight<br>(lbs) |  |  |
| <u>FLS-VM-400</u> | \$57.00                           | 316SS             | 316SS            | -40°F to 392°F<br>[-40°C to<br>200°C] | 300 psig<br>[20.7 bar] | 0.7                          | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### **Dimensions**

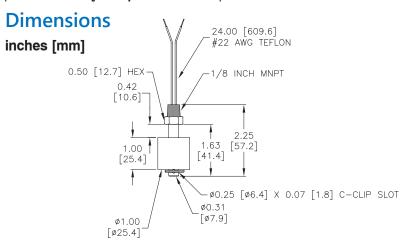


|                   | Float Level Switch Specifications |                   |                  |                                    |                   |                              |  |                       |  |   |                 |  |  |
|-------------------|-----------------------------------|-------------------|------------------|------------------------------------|-------------------|------------------------------|--|-----------------------|--|---|-----------------|--|--|
| Part No.          | Price                             | Float<br>Material | Stem<br>Material | Temperature<br>Range               | Pressure          | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires            | Mounting<br>Thread                                     |   | Weight<br>(lbs) |  |  |
| <u>FLS-VM-500</u> | \$43.00                           | Kynar<br>(PVDF)   | Kynar<br>(PVDF)  | -40°F to 221°F<br>[-40°C to 105°C] | 15 psig<br>[1bar] | 0.85                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 22AWG,<br>Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





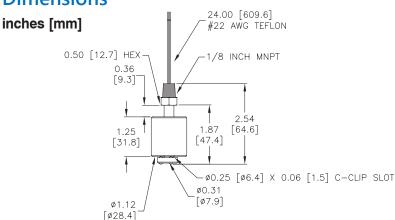
|                   | Float Level Switch Specifications |   |                  |                                       |  |                              |  |   |  |  |                 |  |  |
|-------------------|-----------------------------------|---|------------------|---------------------------------------|--|------------------------------|--|---|--|--|-----------------|--|--|
| Part No.          | Price                             | Float Material                                | Stem<br>Material | Temperature<br>Range                  | Pressure                                   | Float<br>Specific<br>Gravity | Electrical<br>Rating*  |   | Mounting<br>Thread                                     | Approvals  | Weight<br>(lbs) |  |  |
| <u>FLS-VM-600</u> | \$269.00                          | Polytetrafluoroethylene<br>(PTFE)<br>"Teflon" | PTFE<br>"Teflon" | -40°F to 302°F<br>[-40°C to<br>150°C] | 25 psig<br>[1.7 bar]<br>@ 21°C<br>[69.8°F] | 0.69                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | , | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Normally closed switch. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### **Dimensions**

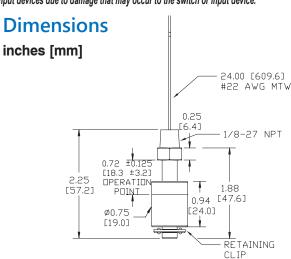


|            |         |                       |                       | Float Leve                         | I Switc                | h Speci                      | fications  |                    |  |   |                 |
|------------|---------|-----------------------|-----------------------|------------------------------------|------------------------|------------------------------|--|--------------------|--|---|-----------------|
| Part No.   | Price   | Float Material        | Stem<br>Material      | Temperature<br>Range               | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires         | Mounting<br>Thread                                     | Approvals   | Weight<br>(lbs) |
| FLS-VM-700 | \$19.50 | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to 105°C] | 150 psig<br>[10.3 bar] | 0.76                         | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>MTW 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CE<br>(See<br>Approvals<br>table for<br>details) | 0.08            |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





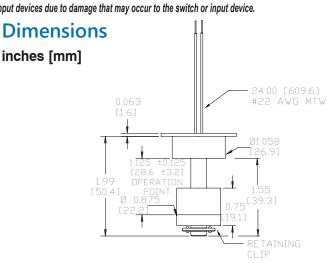
|            |         |                       | FI               | oat Level                         | Switch   | Specif                       | ications   |               |                         |   |                 |
|------------|---------|-----------------------|------------------|-----------------------------------|----------|------------------------------|--|---------------|-------------------------|---|-----------------|
| Part No.   | Price   | Float Material        | Stem<br>Material | Temperature<br>Range              | Pressure | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead<br>Wires | Mounting                | Approvals   | Weight<br>(lbs) |
| FLS-VM-800 | \$21.50 | Polypropylene<br>(PP) | PVC              | -40°F to 140°F<br>[-40°C to 60°C] |          | 0.85                         | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | MTW 24in      | 3/4 in PVC pipe fitting | cURus, CE<br>(See<br>Approvals<br>table for<br>details) | 0.08            |

<sup>\*</sup> Normally closed switch. Cannot be converted to function as normally open. Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





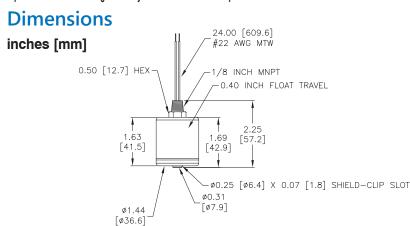


|            | Float Level Switch Specifications |                       |                                    |                                       |                       |                              |  |                    |  |   |                 |  |  |
|------------|-----------------------------------|-----------------------|------------------------------------|---------------------------------------|-----------------------|------------------------------|--|--------------------|--|---|-----------------|--|--|
| Part No.   | Price                             | Float Material        | Stem /<br>Slosh Shield<br>Material | Temperature<br>Range                  | Pressure              | Float<br>Specific<br>Gravity | Electrical<br>Rating*  |                    | Mounting<br>Thread                                     |   | Weight<br>(lbs) |  |  |
| FLS-VL-010 | \$28.50                           | Polypropylene<br>(PP) | Polypropylene<br>(PP)              | -40°F to 221°F<br>[-40°C to<br>105°C] | 100 psig<br>[6.9 bar] | 0.8                          | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>MTW 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





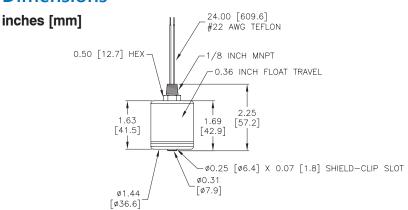
|            | Float Level Switch Specifications |                   |  |                                       |                        |                              |  |                       |  |  |                 |  |  |
|------------|-----------------------------------|-------------------|--|---------------------------------------|------------------------|------------------------------|--|-----------------------|--|--|-----------------|--|--|
| Part No.   | Price                             | Float<br>Material | Stem /<br>Slosh Shield<br>Material     | Temperature<br>Range*                 | Pressure               | Float<br>Specific<br>Gravity | Electrical Rating <sup>1</sup>   | Lead Wires            | Mounting<br>Thread                                     | Approvals  | Weight<br>(lbs) |  |  |
| FLS-VL-020 | \$34.00                           | Buna-N            | Polybutylene<br>Terephthalate<br>(PBT) | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.45                         | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Not for use in hot water at temperatures above 149°F [65°C]

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



#### **Dimensions**



<sup>1</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

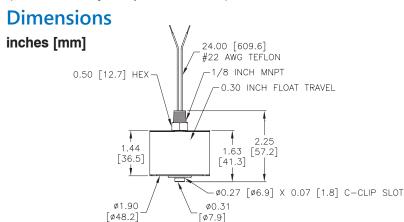
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|            | Float Level Switch Specifications |                   |                                    |                                    |                        |                              |  |                       |  |   |                 |  |  |
|------------|-----------------------------------|-------------------|------------------------------------|------------------------------------|------------------------|------------------------------|--|-----------------------|--|---|-----------------|--|--|
| Part No.   | Price                             | Float<br>Material | Stem / Slosh<br>Shield<br>Material | Temperature<br>Range               | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires            | Mounting<br>Thread                                     | Approvals   | Weight<br>(lbs) |  |  |
| FLS-VL-030 | \$81.00                           | 316SS             | 316SS                              | -40°F to 392°F<br>[-40°C to 200°C] | 300 psig<br>[20.7 bar] | 0.7                          | SPST-NC,<br>30W max<br>240VAC, 0.14 A<br>120VAC, 0.28 A<br>120VDC, 0.07 A<br>24VDC, 0.28 A | 22AWG,<br>Teflon 24in | 1/8 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.2             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



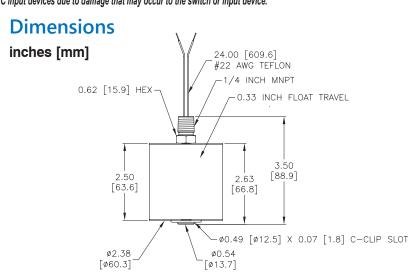


|                   | Float Level Switch Specifications |       |                                 |                                       |                        |                              |  |                       |  |  |                 |  |  |
|-------------------|-----------------------------------|-------|---------------------------------|---------------------------------------|------------------------|------------------------------|--|-----------------------|--|--|-----------------|--|--|
| Part No.          | Price                             |       | Stem / Slosh<br>Shield Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires            | Mounting<br>Thread                                     | Approvals  | Weight<br>(lbs) |  |  |
| <u>FLS-VL-040</u> | \$127.00                          | 316SS | 316SS                           | -40°F to 392°F<br>[-40°C to<br>200°C] | 200 psig<br>[13.8 bar] | 0.55                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 22AWG,<br>Teflon 24in | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CSA, CE,<br>(See<br>Approvals<br>table for<br>details) | 0.4             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





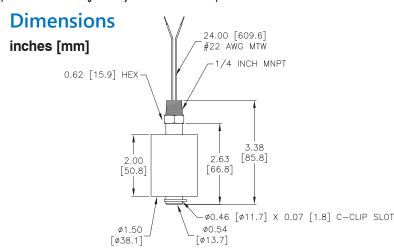
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|                   | Float Level Switch Specifications |                       |                       |                                       |                       |                              |  |                    |  |   |                 |  |  |
|-------------------|-----------------------------------|-----------------------|-----------------------|---------------------------------------|-----------------------|------------------------------|--|--------------------|--|---|-----------------|--|--|
| Part No.          | Price                             | Float Material        | Stem Material         | Temperature<br>Range                  | Pressure              | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires         | Mounting<br>Thread                                     | Approvals   | Weight<br>(lbs) |  |  |
| <u>FLS-VL-100</u> | \$59.00                           | Polypropylene<br>(PP) | Polypropylene<br>(PP) | -40°F to 221°F<br>[-40°C to<br>105°C] | 100 psig<br>[6.9 bar] | 0.75                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 22AWG,<br>MTW 24in | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



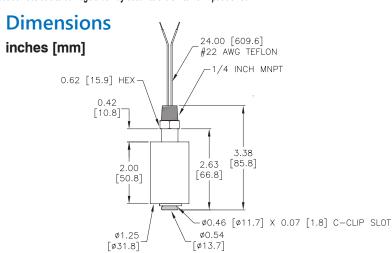


| Ī |            | Float Level Switch Specifications |                   |  |                                       |                        |                              |  |                       |  |   |                 |  |
|---|------------|-----------------------------------|-------------------|--|---------------------------------------|------------------------|------------------------------|--|-----------------------|--|---|-----------------|--|
|   | Part No.   | Price                             | Float<br>Material |  | Temperature<br>Range*                 | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating¹  | Lead Wires            | Mounting<br>Thread                                     |   | Weight<br>(lbs) |  |
|   | FLS-VL-200 | \$34.50                           | Buna-N            | Polybutylene<br>Terephthalate<br>(PBT) | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.45                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 22AWG,<br>Teflon 24in | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.1             |  |

<sup>\*</sup> Not for use in hot water at temperatures above 149°F [65°C]

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





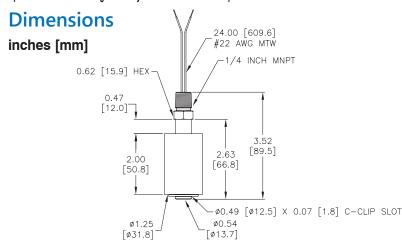
<sup>1</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

|   |            | Float Level Switch Specifications |                   |                  |                                       |                        |                              |  |                    |  |   |                 |
|---|------------|-----------------------------------|-------------------|------------------|---------------------------------------|------------------------|------------------------------|--|--------------------|--|---|-----------------|
| / | Part No.   | Price                             | Float<br>Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead Wires         | Mounting<br>Thread                                     |   | Weight<br>(lbs) |
| 1 | FLS-VL-300 | \$45.00                           | Buna-N            | Brass            | -40°F to 221°F<br>[-40°C to<br>105°C] | 150 psig<br>[10.3 bar] | 0.45                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 22AWG,<br>MTW 24in | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CSA,<br>CE<br>(See<br>Approvals<br>table for<br>details) | 0.3             |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



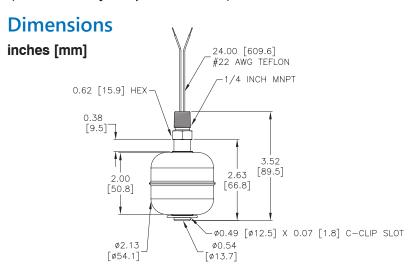


|   | Float Level Switch Specifications |         |                   |                  |                          |                        |                        |                              |  |               |  |  |                 |
|---|-----------------------------------|---------|-------------------|------------------|--------------------------|------------------------|------------------------|------------------------------|--|---------------|--|--|-----------------|
|   | Part No.                          | Price   | Float<br>Material | Stem<br>Material | Minimum**<br>Temperature | Maximum<br>Temperature | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*  | Lead<br>Wires | Mounting<br>Thread                                     | Approvals  | Weight<br>(lbs) |
| ļ | FLS-VL-400                        | \$77.00 | 316SS             | 316SS            | -40°F<br>[-40°C]         | 392°F<br>[200°C]       | 200 psig<br>[13.8 bar] | 0.55                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 24in          | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | URus, CSA, CE,<br>(See Approvals<br>table for details)<br>Haz-Loc<br>Approvals | 0.3             |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.





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<sup>\*\* -40°</sup>F [-40°C] rating not UL tested

# **Properties Float Level Switches, Vertical Top-Mount**

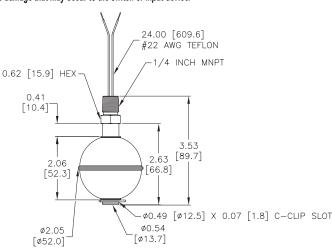
| Ī |            | Float Level Switch Specifications |                   |       |                                    |                        |                              |   |                       |  |  |                 |  |
|---|------------|-----------------------------------|-------------------|-------|------------------------------------|------------------------|------------------------------|---|-----------------------|--|--|-----------------|--|
|   | Part No.   | Price                             | Float<br>Material |       | Temperature<br>Range               | Pressure               | Float<br>Specific<br>Gravity | Electrical<br>Rating*   | Lead Wires            | Mounting<br>Thread                                     | Approvals  | Weight<br>(lbs) |  |
|   | FLS-VL-600 | \$92.00                           | 316SS             | 316SS | -40°F to 392°F<br>[-40°C to 200°C] | 500 psig<br>[34.5 bar] | 0.7                          | SPST-NC,<br>100W max<br>240VAC, 0.4 A<br>120VAC, 1A<br>120VDC, 0.4 A<br>24VDC, 1A | 22AWG,<br>Teflon 24in | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | CE<br>(See<br>Approvals<br>table for<br>details) | 0.3             |  |

<sup>\*</sup> Normally closed switch. Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



### Dimensions inches [mm]



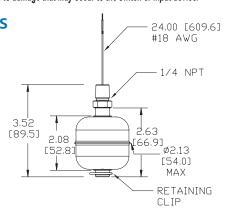
|            | Float Level Switch Specifications |                   |                  |                                       |                        |                              |  |                          |  |   |      |  |  |  |
|------------|-----------------------------------|-------------------|------------------|---------------------------------------|------------------------|------------------------------|--|--------------------------|--|---|------|--|--|--|
|            |                                   | Float<br>Material | Stem<br>Material | Temperature<br>Range                  | Pressure               | Float<br>Specific<br>Gravity | Electrical Rating*   | Lead<br>Wires            | Mounting<br>Thread                                     | Approvals Weight (Ibs)                                |      |  |  |  |
| FLS-VL-700 | \$75.00                           | 316SS             | 316SS            | -40°F to 482°F<br>[-40°C to<br>250°C] | 200 psig<br>[13.8 bar] | 0.55                         | SPST-NC,<br>60W max<br>240VAC, 0.4 A<br>120VAC, 0.5 A<br>120VDC, 0.2 A<br>24VDC, 0.5 A | 18AWG,<br>Teflon<br>24in | 1/4 in MNPT<br>(Install w 30°<br>max from<br>vertical) | cURus, CE,<br>(See Approvals<br>table for<br>details) | 0.03 |  |  |  |

<sup>\*</sup> Can be converted in the field to function as normally open as described under "Operation". Electrical ratings are for resistive loads ONLY. For inductive loads, maximum life will be obtained with the use of appropriate transient suppression such as an MOV or TVS.

Caution: Not recommended for use with PLC AC inputs or other digital AC input devices due to damage that may occur to the switch or input device.



### Dimensions inches [mm]



Ideal for high temperature applications.

### **Properties** Float Level Switches

|                          |                    | Agency Ap   | provals          |   |              |
|--------------------------|--------------------|---|------------------|---|--------------|
|                          |                    | URus  |                  | CSA   |              |
| Part Number              | cURus<br>(E320431) | Class I, Group A,B,C,D /<br>Class II, Group E, F, G /<br>Class III<br>(E366154) | CSA<br>(2679134) | Class I, Group A,B,C,D / Class II,<br>Group E, F, G /<br>Class III<br>(2685021) | CE           |
| FLS-VS-100               | <b>✓</b>           |   |                  |   | <b>✓</b>     |
| FLS-VS-200               |                    |   |                  |   | <b>✓</b>     |
| FLS-VS-300               | <b>✓</b>           |   |                  |   | <b>~</b>     |
| FLS-VS-400               | <b>✓</b>           |   |                  |   | <b>~</b>     |
| FLS-VS-500               |                    |   |                  |   | <b>~</b>     |
| FLS-VD-100               |                    |   |                  |   | <b>~</b>     |
| FLS-VD-200               |                    |   |                  |   | <b>~</b>     |
| FLS-VD-300               |                    |   |                  |   | <b>~</b>     |
| FLS-VD-400               |                    |   |                  |   | <b>~</b>     |
| FLS-VD-500               |                    |   |                  |   | <b>~</b>     |
| FLS-VD-600               |                    |   |                  |   | <b>~</b>     |
| FLS-VM-100               | <b>✓</b>           |   | <b>~</b>         |   | <b>~</b>     |
| FLS-VM-200               | <b>~</b>           |   | <b>~</b>         |   | <b>~</b>     |
| FLS-VM-300               | <b>~</b>           |   | <b>~</b>         |   | <b>~</b>     |
| FLS-VM-400               | <b>~</b>           |   | <b>~</b>         |   | <b>~</b>     |
| FLS-VM-500               | <b>~</b>           |   |                  |   | <b>~</b>     |
| FLS-VM-600               |                    |   |                  |   | <b>~</b>     |
| FLS-VM-700               | <b>~</b>           |   |                  |   | ·            |
| FLS-VM-800               | <u> </u>           |   |                  |   | <u> </u>     |
| FLS-VL-010               | · /                |   |                  |   |              |
| FLS-VL-020               | ~                  |   | ·                |   | <u> </u>     |
| FLS-VL-030               | ~                  |   | <b>V</b>         |   | <u> </u>     |
| FLS-VL-040               | <b>V</b>           |   | <b>V</b>         |   | <u> </u>     |
| FLS-VL-100               | <b>~</b>           |   | <b>V</b>         |   | <u> </u>     |
| FLS-VL-200               | ~                  |   | <b>~</b>         |   | <u> </u>     |
| FLS-VL-300               | <b>Y</b>           |   | · ·              |   | <u> </u>     |
| FLS-VL-400               | •                  | <b>~</b>  | •                | <b>~</b>  | <del></del>  |
| FLS-VL-600               |                    | <b>V</b>  |                  | <b>,</b>  | <u> </u>     |
| FLS-VL-700               | <b>~</b>           |   | <b>~</b>         |   | •            |
| FLS-VL-900               | •                  |   | •                |   | <b>~</b>     |
|                          | <b>~</b>           |   | <b>~</b>         |   |              |
| FLS-HS-100<br>FLS-HS-200 | ~                  |   | <b>V</b>         |   | <b>~</b>     |
|                          | •                  |   | •                |   | <del>-</del> |
| FLS-HS-300               | <b>✓</b>           |   | <b>~</b>         |   |              |
| FLS-HM-100               |                    | <b>~</b>  | <b>V</b>         | <b>✓</b>  |              |
| FLS-HM-200               | <b>V</b>           | <b>Y</b>  | <b>V</b>         | <b>V</b>  | <b>✓</b>     |
| FLS-HM-300               | <b>V</b>           | .,,   |                  |   |              |
| FLS-HM-400               | <b>Y</b>           | <b>~</b>  | <b>✓</b>         |   | <b>✓</b>     |
| FLS-HM-500               | <b>~</b>           |   |                  |   |              |
| FLS-HM-600               |                    |   |                  |   | <b>V</b>     |
| FLS-HM-700               | <b>~</b>           |   |                  |   | <b>✓</b>     |
| FLS-HL-010               |                    |   |                  |   |              |
| FLS-HL-200               | <b>~</b>           |   |                  |   | <b>V</b>     |
| FLS-HL-300               |                    |   |                  |   | <b>~</b>     |
| FLS-HL-400               |                    |   |                  |   | <u> </u>     |
| FLS-BM-100               |                    |   |                  |   | <u> </u>     |
| FLS-BM-300               | <b>✓</b>           |   | <b>✓</b>         |   |              |
| FLS-BL-100               |                    |   |                  |   | <u> </u>     |
| FLS-VK-200               | <b>~</b>           |   |                  |   |              |
| FLS-VK-300               | <b>~</b>           |   |                  |   |              |
| FLS-HT-100               |                    |   |                  |   |              |
| <u>FLS-HT-200</u>        |                    |   |                  |   | <b>~</b>     |