

## SH-3 SERIES

### NPT MOUNT SPDT SWITCH



The SH-3 series are NPT mount horizontal float operated level switches.

This design uses a pivoted float arm with a magnet on the inboard end. This magnet when moved by the rising float arm interacts with another magnet in the switch enclosure to give a snap action operation.

Two switching options are available using either microswitches or reed switches, for different switching power and operating temperature ranges.

Available with either 1 1/2" NPT or 2" NPT thread mounting.

### Features

- 1 1/2" NPT or 2" NPT thread external mount
- SS 316L float material
- SS 304 other wetted parts material
- Available in direct switching version for use at up to 100°C or low power switching at up to 200°C
- Aluminium enclosure with screw on lid and cable gland

## SPECIFICATIONS

### Technical

|                            |                           |
|----------------------------|---------------------------|
| <b>Mounting Style</b>      | External via screw thread |
| <b>Float Material</b>      | 316L grade SS             |
| <b>Maximum Temperature</b> | 100°C / 200°C             |
| <b>Maximum Pressure</b>    | 20 bar or 25 bar          |
| <b>Float SG</b>            | 0.65 or 0.55              |
| <b>Minimum Fluid SG</b>    | 0.70 or 0.60              |
| <b>Mounting</b>            | 1/2" NPT or 2" NPT        |
| <b>Other Wetted Parts</b>  | SS 304                    |
| <b>Cable Entry</b>         | ½" BSP                    |
| <b>Enclosure Rating</b>    | IP65                      |
| <b>Sealing Gasket</b>      | Not applicable            |

### Electrical

|                                 |   | <b>SH-3052/SH-3151</b> | <b>SH-3052RH/SH-3151RH</b> |
|---------------------------------|---|------------------------|----------------------------|
| <b>Contact Form</b>             |   | SPDT                   | SPDT                       |
| <b>Switching Voltage AC Max</b> | V | 250                    | 400                        |
| <b>Switching Voltage DC Max</b> | V | 120                    | 400                        |
| <b>Switching Current Max</b>    | A | 5                      | 1                          |

All electrical ratings are for resistive loads only. RH version should be limited to maximum power 60VA.

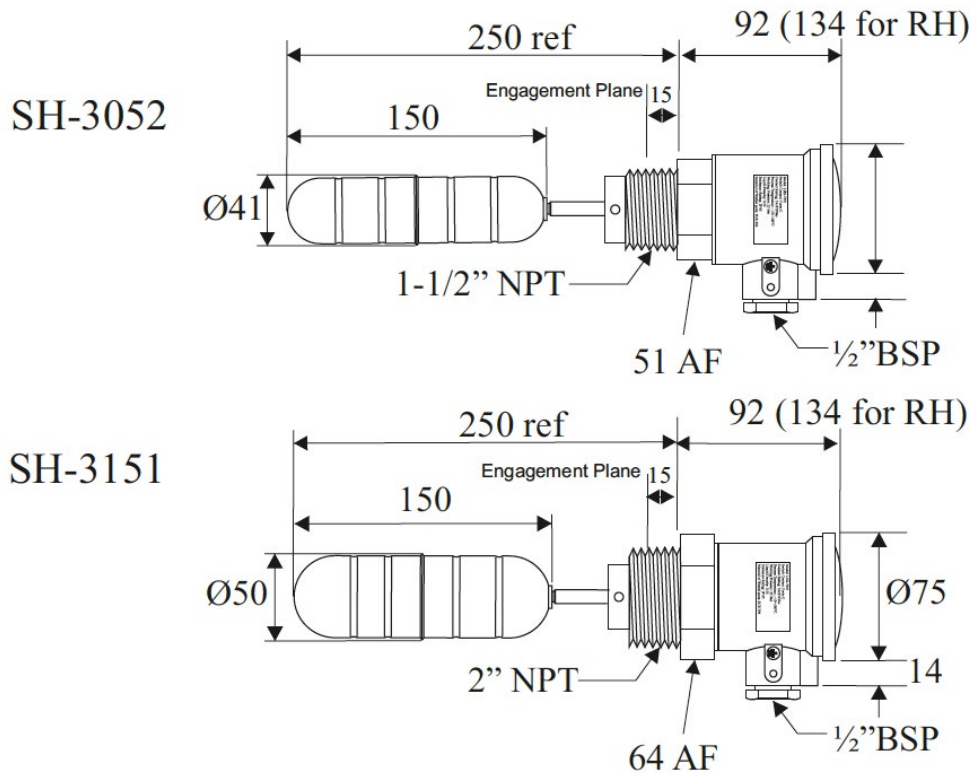
## STANDARD PARTS

|                  | Material    | Max Current | Temperature Range | Min SG | Max Pressure |
|------------------|-------------|-------------|-------------------|--------|--------------|
| <b>SH-3052</b>   | SS 316L/304 | 5           | 0 - 100°C         | 0.70   | 20 bar       |
| <b>SH-3052RH</b> | SS 316L/304 | 1           | 0 - 200°C         | 0.70   | 20 bar       |
| <b>SH-3151</b>   | SS 316L/304 | 5           | 0 - 100°C         | 0.60   | 25 bar       |
| <b>SH-3151RH</b> | SS 316L/304 | 1           | 0 - 200°C         | 0.60   | 25 bar       |

Custom versions can be made for particular applications. Please contact Sensata with your requirements.

## DIMENSIONS

All dimensions are in millimeters.



Made in the UK

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