

## | RSF50 SERIES

### COMPACT INTERNAL FITTING VERTICAL



RSF50 series are compact vertically mounted devices with a single switch point. Mounting is either from the top or bottom of a tank from the inside, so requires access to the inside of the tank.

Typical applications include vending machines, printing systems and chemical dosing equipment.

These can be manufactured in a variety of plastics, with a choice of gasket materials, to suit most commonly used liquids.

The switch action may be reversed by removing the float, inverting it, then refitting to the stem.

Available with M12 x 1.75 or 1/8" NPT mounting threads.

### Features

- Compact design
- Available in Nylon, Polypropylene, PPS & PVDF
- 3VA, 25VA & 100VA versions
- Many variants are UL recognised components File No. E171218
- WRAS and NSF approved versions
- 1/8" NPT and M12 thread options



## SPECIFICATIONS

### Technical

|                                | RSF53   | RSF54                          | RSF58                        | RSF56                           | RSF57                             |
|--------------------------------|---------|--------------------------------|------------------------------|---------------------------------|-----------------------------------|
| <b>Material</b>                | Nylon   | Polypropylene<br>WRAS approved | Polypropylene<br>UL approved | Polyphenylene<br>Sulphide (PPS) | Polyvinylidene<br>Fluoride (PVDF) |
| <b>Colour</b>                  | Black   | Opaque                         | White                        | Grey                            | Green                             |
| <b>Temp. Range</b><br>°C<br>°F | -20/+75 | -20/+100                       | -20/+100                     | -10/+120*                       | -10/+105                          |
|                                | -4/+167 | -4/+212                        | -4/+212                      | +14/+248*                       | +14/+221                          |
| <b>Min. Fluid SG</b>           | 0.8     | 0.65                           | 0.65                         | 0.85                            | 0.85                              |
| <b>Must Close Level (SG=1)</b> | 11.5mm  | 15mm                           | 15mm                         | 9.5mm                           | 9.5mm                             |
| <b>Must Open Level (SG=1)</b>  | 22.5mm  | 26mm                           | 26mm                         | 20.5mm                          | 20.5mm                            |

\* Maximum temperature requires ETFE cable to be specified, otherwise +105°C.

## Electrical

|                                 |    | 3W (V Code) | 25W (Y code) | 100W (H code) |
|---------------------------------|----|-------------|--------------|---------------|
| <b>Contact Form</b>             |    | C/O         | N/O (N/C)    | N/O (N/C)     |
| <b>Switching Power Max</b>      | VA | 3           | 25           | 100           |
| <b>Switching Voltage AC Max</b> | V  | -           | 240          | 300           |
| <b>Switching Voltage DC Max</b> | V  | 100         | 120          | 300           |
| <b>Switching Current Max</b>    | A  | 0.25        | 0.6          | 1             |

All ratings are for resistive load only.

## STANDARD PARTS

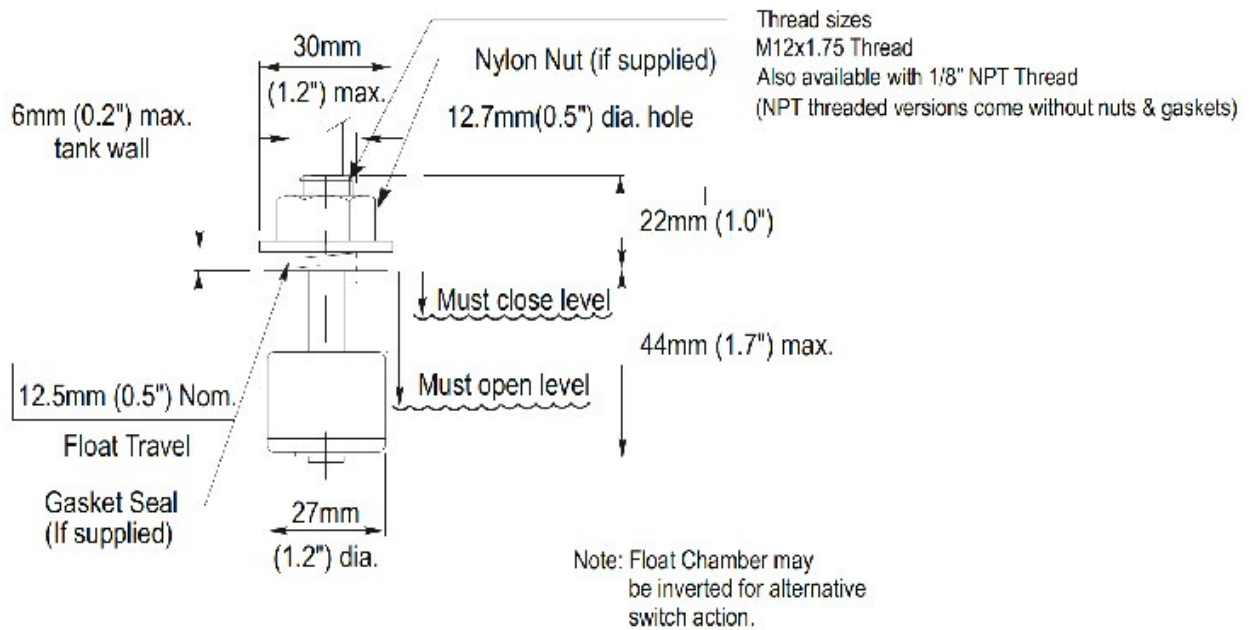
|                      | Material | Temp Range      | Max Power | Mounting Thread | Leadouts                  | Gasket  | Approvals      |
|----------------------|----------|-----------------|-----------|-----------------|---------------------------|---------|----------------|
| <b>RSF53H100RC</b>   | Nylon    | -20°C to +75°C  | 100VA     | M12             | 100cm PVC 16/0.2          | Nitrile | WRAS           |
| <b>RSF53H100R1/8</b> | Nylon    | -20°C to +75°C  | 100VA     | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | WRAS           |
| <b>RSF53V100MC</b>   | Nylon    | -20 C to +75°C  | 3VA       | M12             | 100 cm Cable 3-Core 7/0.2 | Nitrile | WRAS           |
| <b>RSF53Y100JC</b>   | Nylon    | -20 C to +75°C  | 25VA      | M12             | 100 cm Cable 2-Core 7/0.2 | Nitrile | WRAS           |
| <b>RSF53Y100RC</b>   | Nylon    | -20°C to +75°C  | 25VA      | M12             | 100cm PVC 16/0.2          | Nitrile | WRAS           |
| <b>RSF53Y100R1/8</b> | Nylon    | -20°C to +75°C  | 25VA      | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | WRAS           |
| <b>RSF54H100RC</b>   | PP       | -20°C to +100°C | 100VA     | M12             | 100cm PVC 16/0.2          | Nitrile | WRAS & NSF     |
| <b>RSF54H100R1/8</b> | PP       | -20°C to +100°C | 100VA     | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | WRAS & NSF     |
| <b>RSF54V100MC</b>   | PP       | -20 C to +100°C | 3VA       | M12             | 100 cm Cable 3-Core 7/0.2 | Nitrile | WRAS & NSF     |
| <b>RSF54Y100JC</b>   | PP       | -20 C to +100°C | 25VA      | M12             | 100 cm Cable 2-Core 7/0.2 | Nitrile | WRAS & NSF     |
| <b>RSF54Y100RC</b>   | PP       | -20°C to +100°C | 25VA      | M12             | 100cm PVC 16/0.2          | Nitrile | WRAS & NSF     |
| <b>RSF54Y100R1/8</b> | PP       | -20°C to +100°C | 25VA      | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | WRAS & NSF     |
| <b>RSF56H050TB</b>   | PPS      | -10°C to +120°C | 100VA     | M12             | 50cm ETFE 19/0.2          | Viton   | UL & NSF       |
| <b>RSF56H100RC</b>   | PPS      | -10°C to +105°C | 100VA     | M12             | 100cm PVC 16/0.2          | Nitrile | WRAS, UL & NSF |
| <b>RSF56H100R1/8</b> | PPS      | -10°C to +105°C | 100VA     | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | WRAS, UL & NSF |
| <b>RSF56Y050TB</b>   | PPS      | -10°C to +120°C | 25VA      | M12             | 50cm ETFE 19/0.2          | Viton   | UL & NSF       |
| <b>RSF56Y050T1/8</b> | PPS      | -10°C to +120°C | 25VA      | 1/8" NPT        | 50cm ETFE 19/0.2          | N/A     | WRAS, UL & NSF |
| <b>RSF56Y100TB</b>   | PPS      | -10°C to +120°C | 25VA      | M12             | 50cm ETFE 19/0.2          | Viton   | UL & NSF       |
| <b>RSF56Y100RB</b>   | PPS      | -10 C to +105°C | 25VA      | M12             | 100 cm PVC 16/0.2         | Viton   | UL & NSF       |
| <b>RSF56Y100RC</b>   | PPS      | -10°C to +105°C | 25VA      | M12             | 100cm PVC 16/0.2          | Nitrile | WRAS, UL & NSF |
| <b>RSF56Y100R1/8</b> | PPS      | -10°C to +105°C | 25VA      | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | WRAS, UL & NSF |
| <b>RSF57H100GC</b>   | PVDF     | -10°C to +105°C | 100VA     | M12             | 100cm PTFE7/0.2           | Nitrile | UL & NSF       |
| <b>RSF57H100G1/8</b> | PVDF     | -10°C to +105°C | 100VA     | 1/8" NPT        | 100cm PTFE7/0.2           | N/A     | UL & NSF       |
| <b>RSF57Y100GC</b>   | PVDF     | -10°C to +105°C | 25VA      | M12             | 100cm PTFE7/0.2           | Nitrile | UL & NSF       |
| <b>RSF57Y100G1/8</b> | PVDF     | -10°C to +105°C | 25VA      | 1/8" NPT        | 100cm PTFE7/0.2           | N/A     | UL & NSF       |
| <b>RSF57H100GB</b>   | PVDF     | -10°C to +105°C | 100VA     | M12             | 100cm PTFE7/0.2           | Viton   | UL & NSF       |
| <b>RSF57Y100GB</b>   | PVDF     | -10°C to +105°C | 25VA      | M12             | 100cm PTFE7/0.2           | Viton   | UL & NSF       |
| <b>RSF58H100JC</b>   | PP (UL)  | -20 C to +100°C | 100VA     | M12             | 100 cm Cable 2-Core 7/0.2 | Nitrile | UL             |
| <b>RSF58H100RC</b>   | PP (UL)  | -20°C to +100°C | 100VA     | M12             | 100cm PVC 16/0.2          | Nitrile | UL             |
| <b>RSF58H100R1/8</b> | PP (UL)  | -20°C to +100°C | 100VA     | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | UL             |
| <b>RSF58Y100RC</b>   | PP (UL)  | -20°C to +100°C | 25VA      | M12             | 100cm PVC 16/0.2          | Nitrile | UL             |
| <b>RSF58Y100R1/8</b> | PP (UL)  | -20°C to +100°C | 25VA      | 1/8" NPT        | 100cm PVC 16/0.2          | N/A     | UL             |

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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