

Datasheet

RS Stock No. 1242553

RS Pro 1/2"NPT External Mount Float Switch with Temperature Sensing



- Compact design with temperature sensing
- 1/2"NPT thread for external mount
- 25VA & 100VA versions
- Float material SS 316, stem material SS 304
- N/O or N/C switching action
- Temperature measurement from -20°C to +120°C

The TSSF212 series is a compact external fitting device, via 1/2"NPT thread, with a high specification thermistor so capable of sensing both liquid level and temperature.

The device does not require access to the inside of the tank.

Application of the product is typically used in the pharmaceutical industry, food and beverage and dairies industry, as well as biofuel industry.

They are manufactured in stainless steel, to suit most commonly used liquids.

The switch action may be reversed by rotating the device through 180°.

Technical Specification

| | |
|-----------------------|-----------------|
| Mounting Style | External |
| Mounting Thread | 1/2"NPT |
| Float & Stem Material | SS 316 & SS 304 |
| Maximum Temperature | -20°C to 120°C |
| Maximum Pressure | 10 bar |
| Float SG | 0.7 |
| Minimum Fluid SG | 0.8 |

Electrical Specification

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

Thermistor Specification

| | |
|--------------------------------|-----------------------------------|
| Nominal Temperature Resistance | 10k Ohm at 25°C |
| Resistance Tolerance | +/- 1% (25°C) to +/- 4.3% (120°C) |
| Operating Temperature Range | -20°C to +120°C |
| Temperature Sensing Accuracy | +/- 0.2°C (0°C to +70°C) |
| Beta Value | 3892K (0/50°C) |
| Response Time | <1 sec |
| Dissipation Constant | 0.75mW/K |

| RS Stock No. | Standard Parts | Temperature | Max Power | Leadouts | Output |
|--------------|----------------|------------------|-----------|-------------------|-------------|
| 1242554 | TSSF212H100 | -20°C to + 120°C | 100VA | 100cm XLPE AWG 22 | SPNO + Temp |
| 1242553 | TSSF212Y100 | -20°C to + 120°C | 25VA | 100cm XLPE AWG 22 | SPNO + Temp |

Mechanical Dimensions

