



RS stock numbers : 725-9820, 725-9824, 725-9827

TSF70 Series

Compact external fitting with integral thermistor output

The TSF70 is a development of the established RSF70 series range of liquid level sensors. Incorporating a high specification thermistor, this device is now capable of sensing both fluid level and temperature.

Typical applications include vending machines, steam baths, saunas and evaporator units.

They are manufactured in a variety of materials, with a choice of gasket materials, to suit most commonly used liquids. The switch action may be reversed by rotating the device through 180°.

| Technical Specification | TSF73 | TSF74 | TSF78 | TSF76 |
|---------------------------|-----------|--------------------------------|------------------------------|---------------------------------|
| Material | Nylon | Polypropylene WRAS Approved | Polypropylene UL Approved | Polyphenylene Sulphide (PPS) |
| Colour | Black | Opaque | White | Grey |
| Temp. Range °C | -20 / +75 | -20 / +100 | -20 / +100 | -10 / +120* |
| °F | -4 / +167 | -4 / +212 | -4 / +212 | +14 / +248* |
| Min. Fluid S.G. | 0.85 | 0.85 | 0.85 | 0.85 |
| Must Close Level (S.G.=1) | 7mm | 8mm | 8mm | 9mm |
| Must Open Level (S.G.=1) | 20mm | 20mm | 20mm | 24mm |

*Maximum temperature requires ETFE cable to be specified.

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

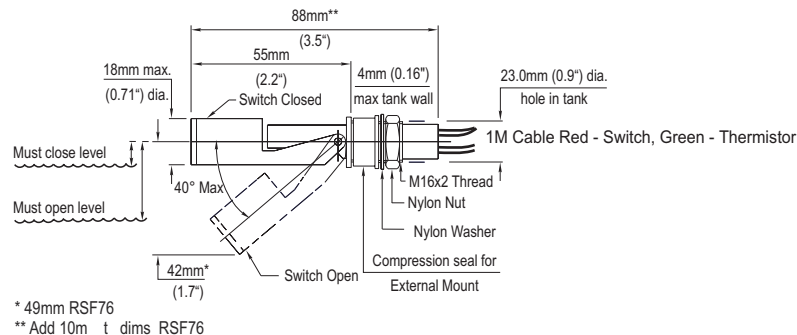
All ratings are for resistive load only.

| 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 code | Standard Parts | Material | Leadouts | Gaskets |
|---------------|----------------|--------------------|---------------------------------|---------|
| 725-9827 | TSF73H100DF | Nylon | 1.0m XLPVC 19/0.023 UL Approved | Nitrile |
| 725-9820 | TSF74H100DF | Polypropylene | 1.0m XLPVC 19/0.23 UL Approved | Nitrile |
| 725-9824 | TSF76H100DF | PPS | 1.0m XLPVC 19/0.23 UL Approved | Nitrile |
| | TSF78H/Y100DF | Polypropylene (UL) | 1.0m XLPVC 19/0.23 UL Approved | Nitrile |

Mechanical Dimensions

All dimensions are in millimeters (inches)



- Compact design
- Reliable reed switch contacts
- Available in Nylon, Polypropylene or PPS
- Integral Thermistor
- Compression Seal Mount

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ISO 9001 CERTIFIED

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