TSF40 Series

Compact internal fitting with integral thermistor output

The TSF40 is a development of the established RSF40 series range of liquid level sensors. Incorporating a high specification thermistor, this device is now capable of sensing both fluid level and temperature.

Mounting of this series requires access to the inside of the tank.

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	TSF43	TSF44	TSF48	TSF46
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/0 (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.

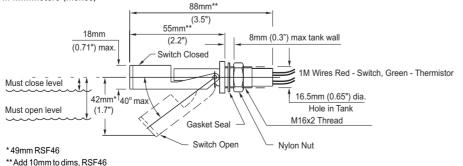
Thermistor Specification

Nominal Temperature Resistance	10k Ohm at 25℃	
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 cod	le Standard Parts	Material	Approvals	Leadouts	
725-9811	TSF43H100DF	Nylon	WRAS	1.0m XLPVC 19/.023 UL Approved	Nitrile
725-9814	TSF44H100DF	Polypropylene	WRAS	1.0m XLPVC 19/0.23 UL Approved	Nitrile
725-9818	TSF46H100DF	PPS	WRAS UL	1.0m XLPVC 19/0.23 UL Approved	Nitrile
	TSF48H/Y100DF	Polypropylene	UL	1.0m XLPVC 19/0.23 UL Approved	Nitrile

Mechanical Dimensions

All dimensions are in millimeters (inches)



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Compact design

- Reliable reed switch contacts
- Available in Nylon, Polypropylene or PPS
- WRAS approval

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TSF70 Series

Compact external fitting with integral thermistor output



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

Technical Specication	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 specied.

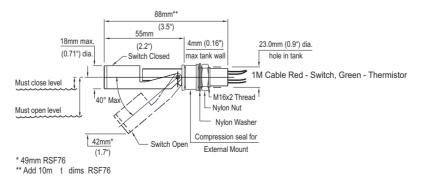
Electrical Specification	25W (Y Switch)	100W (H Switch)
Contact Form	N/0 (N/C)	N/O (N/C)
Switching Power Max. VA	25VA	100VA
Switching Voltage AC Max.	240V	300V
Switching Voltage DC Max.	120V	300V
Switching Current Max. A	0.6A	1A

All ratings are for resistive load only.

10k Ohm at 25℃	
+/- 1% (25°C) to +/- 4.3% (120°C)	
-20°C to +120°C	
+/-0.2°C (0°C to +70°C)	
3892K (0/50°C)	
< 1 sec	
0.75mW/K	
	+/- 1% (25°C) to +/- 4.3% (120°C) -20°C to +120°C +/-0.2°C (0°C to +70°C) 3892K (0/50°C) < 1 sec

Standard Parts	Material	Leadouts	Gaskets
TSF73H/Y100DF	Nylon	1.0m XLPVC 19/.023 UL Approved	Nitrile
TSF74H/Y100DF	Polypropylene	1.0m XLPVC 19/0.23 UL Approved	Nitrile
TSF76H/Y100DF	PPS	1.0m XLPVC 19/0.23 UL Approved	Nitrile
TSF78H/Y100DF	Polypropylene (UL)	1.0m XLPVC 19/0.23 UL Approved	Nitrile

All dimensions are in millimeters (inches)



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Mechanical Dimensions