

TSF40 Series

Compact internal fitting with integral thermistor output



The TSF40 series 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 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°.

cynergy3 components™



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

Technical Specification	TSF43	TSF44	TSF48	TSF46
Material	Nylon	Polypropylene WRAS Approved	Polypropylene UL Approved	Polyphenylene Sulphide (PPS)
Colour	Black	Opaque	Red	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

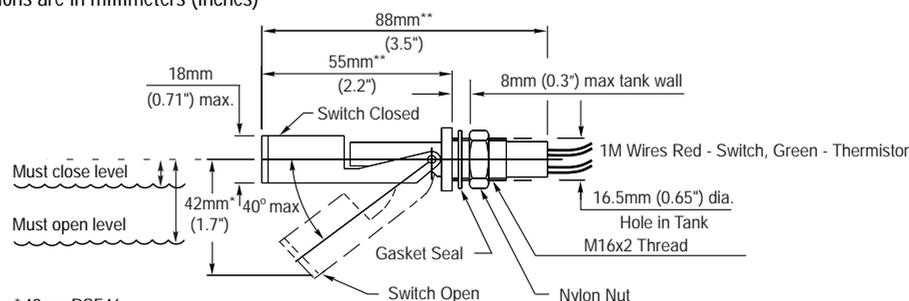
Standard Parts	Material	Approvals	Leadouts	Gaskets
TSF43H/Y100DF	Nylon	WRAS	1.0m XLPVC 19/0.23 UL Approved	Nitrile
TSF44H/Y100DF	Polypropylene	WRAS	1.0m XLPVC 19/0.23 UL Approved	Nitrile
TSF46H/Y100DF	PPS	WRAS UL	1.0m XLPVC 19/0.23 UL Approved	Nitrile
TSF48H/Y100DF	Polypropylene	UL	1.0m XLPVC 19/0.23 UL Approved	Nitrile

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Mechanical Dimensions

All dimensions are in millimeters (inches)



* 49mm RSF46

** Add 10mm to dims, RSF46

ISO9001 CERTIFIED

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