| TSF40 SERIES

COMPACT INTERNAL MOUNT WITH TEMPERATURE SENSING



The TSF40 series is a compact internal fitting device, with a high specification thermistor so capable of sensing both liquid level and temperature.

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

Typical applications include vending machines, commercial washing machines 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°.

Available with flying lead connection.

Features

- Compact design with temperature sensing
- Available in Nylon, Polypropylene or PPS
- 25VA & 100VA versions
- WRAS Approved versions

SPECIFICATIONS

Technical

	TSF43	TSF44	TSF48	TSF46
Material	Nylon	Polypropylene WRAS approved	Polypropylene	Polyphenylene Sulphide (PPS)
Colour	Black	Opaque	White	Grey
Temp. Range °C	-20/+75	-20/+100	-20/+100	-10/+120*
Temp. Range °F	-4/+167	-4/+212	-4/+212	+14/+248*
Min. Fluid SG	0.85	0.85	0.85	0.85
Must Close Level (SG=1)	7mm	8mm	8mm	9mm
Must Open Level (SG=1)	20mm	20mm	20mm	24mm

*Maximum temperature requires ETFE cable to be specified.

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Electrical

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

All ratings are for resistive load only.

Thermistor

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

STANDARD PARTS

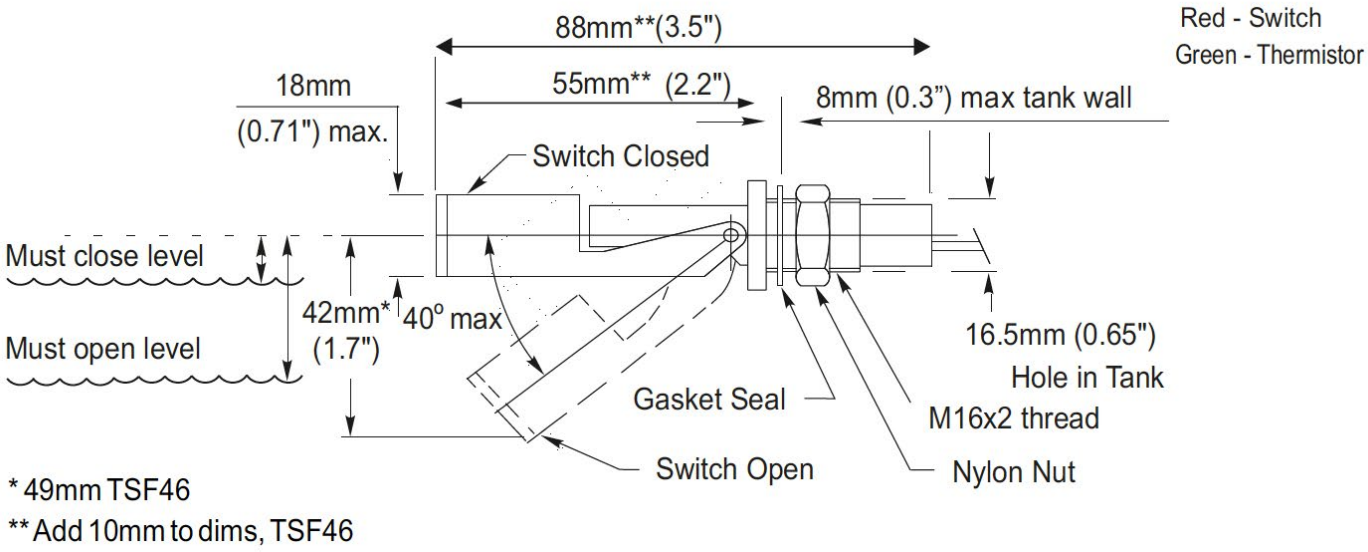
	Material	Temperature	Max Power	Leadouts	Gasket	Approvals
TSF43H100DF	Nylon	-20ºC to +75ºC	100VA	100cm PVC 16/0.2	Nitrile	WRAS
TSF43Y100DF	Nylon	-20ºC to +75ºC	25VA	100cm PVC 16/0.2	Nitrile	WRAS
TSF44H100DF	PP	-20ºC to +100ºC	100VA	100cm PVC 16/0.2	Nitrile	WRAS
TSF44Y100DF	PP	-20ºC to +100ºC	25VA	100cm PVC 16/0.2	Nitrile	WRAS
TSF46H050TG	PPS	-10ºC to +120ºC	100VA	50cm ETFE 19/0.2	Viton	WRAS
TSF46H100DF	PPS	-10ºC to +100ºC	100VA	100cm PVC 16/0.2	Nitrile	WRAS
TSF46Y050TG	PPS	-10ºC to +120ºC	25VA	50cm ETFE 19/0.2	Viton	WRAS
TSF46Y100DF	PPS	-10ºC to +105ºC	25VA	100cm PVC 16/0.2	Nitrile	WRAS
TSF48H100DF	PP (UL)	-20ºC to +100ºC	100VA	100cm PVC 16/0.2	Nitrile	
TSF48Y100DF	PP (UL)	-20ºC to +100ºC	100VA	100cm PVC 16/0.2	Nitrile	

Custom versions can be made for particular applications. Please contact Sensata with your requirements.

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DIMENSIONS

All dimensions are in millimeters.



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