

## TSF70 SERIES

### COMPACT EXTERNAL MOUNT WITH TEMPERATURE SENSING



The TSF70 series is a compact external fitting device, with a high specification thermistor so capable of sensing both liquid level and temperature.

Mounting of this series is with the use of a compression seal, so does not require 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°.

#### Features

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

## SPECIFICATIONS

### Technical

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

\*Maximum temperature requires ETFE cable to be specified.

## Electrical

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

All ratings are for resistive load only.

## Thermistor

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

## STANDARD PARTS

	<b>Material</b>	<b>Temperature</b>	<b>Max Power</b>	<b>Leadouts</b>	<b>Gasket</b>	<b>Approvals</b>
<b>TSF73H100DN</b>	Nylon	-20°C to +75°C	100VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>TSF73Y100DN</b>	Nylon	-20°C to +75°C	25VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>TSF74H100DN</b>	PP	-20°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>TSF74Y100DN</b>	PP	-20°C to +100°C	25VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>TSF76H050TV</b>	PPS	-10°C to +120°C	100VA	50cm ETFE 19/0.2	Viton	WRAS
<b>TSF76H100DN</b>	PPS	-10°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>TSF76Y050TV</b>	PPS	-10°C to +120°C	25VA	50cm ETFE 19/0.2	Viton	WRAS
<b>TSF76Y100DN</b>	PPS	-10°C to +105°C	25VA	100cm PVC 16/0.2	Nitrile	WRAS
<b>TSF78H100DN</b>	PP (UL)	-20°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	
<b>TSF78Y100DN</b>	PP (UL)	-20°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	

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