

| 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
Material	Nylon	Polypropylene WRAS approved	Polypropylene	Polyphenylene Sulphide (PPS)
Colour	Black	Opaque	White	Grey
Temp. Range	°C	-20/+75	-20/+100	-10/+120*
	°F	-4/+167	-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.

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 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

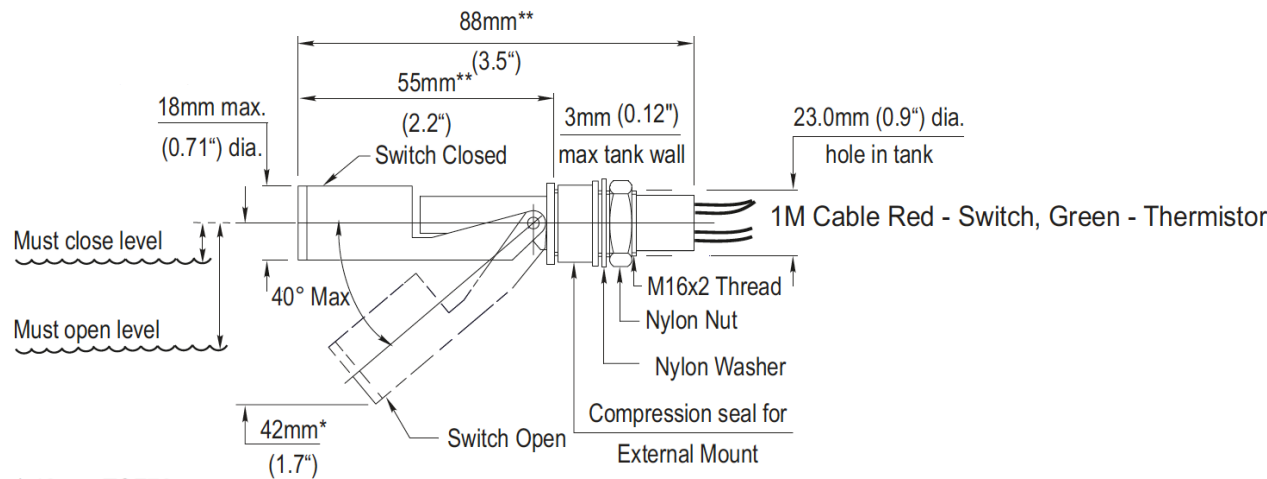
STANDARD PARTS

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

DIMENSIONS

All dimensions are in millimeters.



* 49mm TSF76
 ** Add 10mm to dimensions TSF76

Datasheets provided by Sensata Technologies, Inc., its subsidiaries and/or affiliates ("Sensata") are solely intended to assist third parties ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, valuation, and judgment in designing Buyer's systems and products. Sensata datasheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular datasheet. Sensata may make corrections, enhancements, improvements, and other changes to its datasheets or components without notice. Buyers are authorized to use Sensata datasheets with the Sensata component(s) identified in each particular datasheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATASHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATASHEETS OR USE OF THE DATASHEETS, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATASHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com. SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY, AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

CONTACT US

Sensata Technologies
 Jan Tinbergenstraat 80
 7559 SP Hengelo
 The Netherlands
 1-508-236-3800
 +44 (0)1202 897969
cynergy3.enquiries@sensata.com