Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

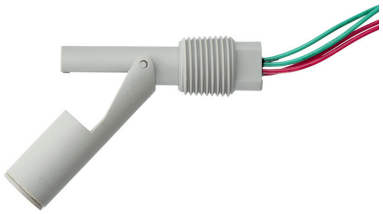
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

TSF80 Series

1/2"NPT External Mount with Temperature Sensing



- ***Compact design with temperature sensing***
- ***1/2"NPT thread for external mount***
- ***25VA & 100VA versions***
- ***WRAS Approved versions***

The TSF80 series is a compact external fitting device, via 1/2"NPT thread, with a high specification thermistor so capable of sensing both liquid level and temperature.

The device is mounted through a 1/2"NPT boss, 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, to suit most commonly used liquids.

The switch action may be reversed by rotating the device through 180º.

Technical Specification		TSF83	TSF84	TSF88	TSF86
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 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 Specification		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.

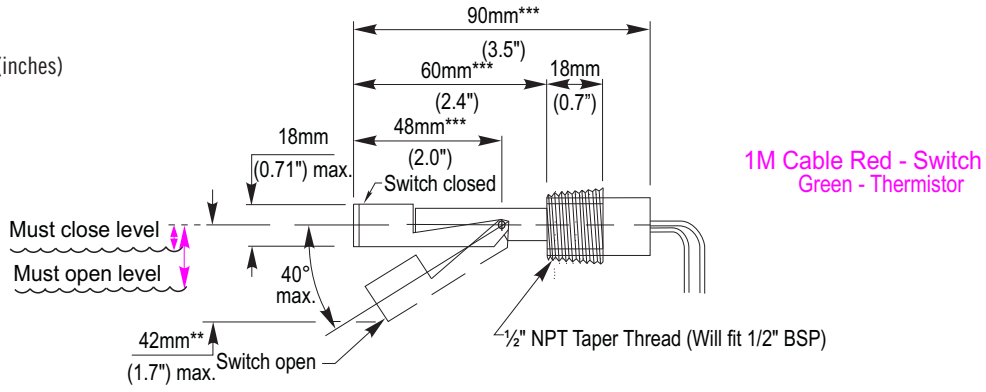
Thermistor Specification	
Nominal Temperature Resistance	10k Ohm at 25ºC
Resistance Tolerance	+/- 1% (25ºC) to +/- 4.3% (120ºC)
Operating Temperature Range	-20ºC to +120ºC
Temperature Sensing Accuracy	+/-0.2ºC (0ºC to +70ºC)
Beta Value	3892K (0/50ºC)
Response Time	<1 sec
Dissipation Constant	0.75mW/K

Standard Parts	Material	Temperature	Max Power	Leadouts	Output
TSF83H100D	Nylon	-20ºC to +75ºC	100VA	100cm PVC 16/0.2	SPNO + Temp
TSF83Y100D	Nylon	-20ºC to +75ºC	25VA	100cm PVC 16/0.2	SPNO + Temp
TSF84H100D	PP	-20ºC to +100C	100VA	100cm PVC 16/0.2	SPNO + Temp
TSF84Y100D	PP	-20ºC to +100ºC	25VA	100cm PVC 16/0.2	SPNO + Temp
TSF86H050T	PPS	-10ºC to +120ºC	100VA	50cm ETFE 19/0.2	SPNO + Temp
TSF86H100D	PPS	-10ºC to +100ºC	100VA	100cm PVC 16/0.2	SPNO + Temp
TSF86Y050T	PPS	-10ºC to +120ºC	25VA	50cm ETFE 19/0.2	SPNO + Temp
TSF86Y100D	PPS	-10ºC to +105ºC	25VA	100cm PVC 16/0.2	SPNO + Temp
TSF88H100D	PP (UL)	-20ºC to +100C	100VA	100cm PVC 16/0.2	SPNO + Temp
TSF88Y100D	PP (UL)	-20ºC to +100C	100VA	100cm PVC 16/0.2	SPNO + Temp

Custom versions can be made for particular applications. Please contact Cynergy3 with your requirements.

Mechanical Dimensions

All dimensions are in millimeters (inches)



Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com

** 49mm TSF86

*** Add 10mm to dims, TSF86

ISO9001 CERTIFIED

TSF80 2017

Made in the UK

www.cynergy3.com