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sales@integrated-circuit.com



TSF70 Series

Compact External Mount with Temperature Sensing



- **Compact design with temperature sensing**
- **Available in Nylon, Polypropylene or PPS**
- **25VA & 100VA versions**
- **Many variants are UL recognised components File No. E171218**
- **WRAS Approved versions**

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°.

Technical Specification	TSF73	TSF74	TSF78	TSF76
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.

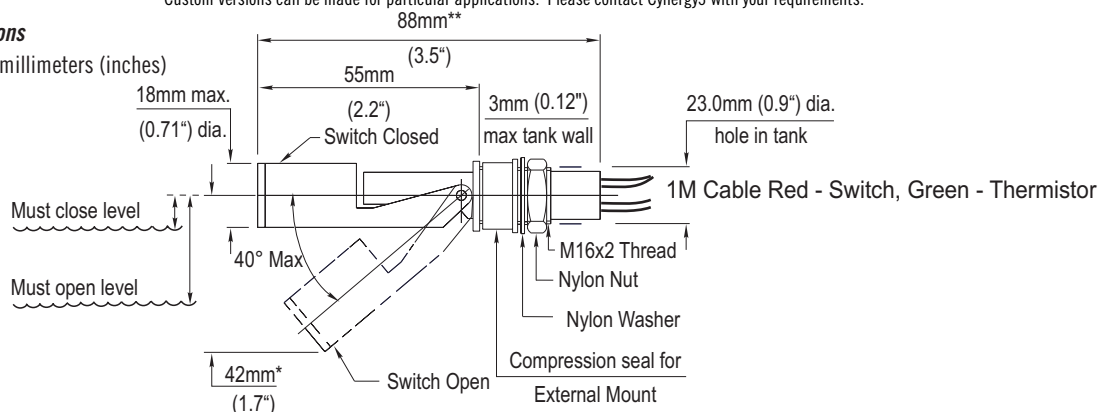
Thermistor Specification	
Nominal Temperature Resistance	10k Ohm at 25°C
Resistance Tolerance	+/- 1% (25°C) to +/- 4.3% (120°C)
Operating Temperature Range	-20°C to +120°C
Temperature Sensing Accuracy	+/-0.2°C (0°C to +70°C)
Beta Value	3892K (0/50°C)
Response Time	<1 sec
Dissipation Constant	0.75mW/K

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 & UL
TSF76H100DN	PPS	-10°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	WRAS & UL
TSF76Y050TV	PPS	-10°C to +120°C	25VA	50cm ETFE 19/0.2	Viton	WRAS & UL
TSF76Y100DN	PPS	-10°C to +105°C	25VA	100cm PVC 16/0.2	Nitrile	WRAS & UL
TSF78H100DN	PP (UL)	-20°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	UL
TSF78Y100DN	PP (UL)	-20°C to +100°C	100VA	100cm PVC 16/0.2	Nitrile	UL

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

Mechanical Dimensions

All dimensions are in millimeters (inches)



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* 49mm TSF76

** Add 10mm to dims TSF76