

Temperature switch

Model TSM-550

Switzer data sheet TSM-550

Applications

- Pumps, filters
- Lubrication system, hydraulic system
- HVAC
- Circuit breakers
- Turbines

Special features

- Wide adjustable range
- Adjustable on-off differential
- Sturdy snap action switch
- Repeatability $\pm 1\%$
- Weatherproof to IP67

Description

The TSM-550 is used in industrial control, monitoring and alarm applications.

The switch point can be specified by the customer on site.

The instrument can switch electrical loads of up to AC 230V, 10A.

The TSM-550 temperature switch offers many application possibilities with non-corrosive media.



Temperature switch, model TSM-550

Standard version

Switch enclosure

Cover: ABS Plastic

Housing: Polyester (DMC)

Repeatability

±1 % of full scale value

Permissible ambient temperature

-40 °C ... +70 °C

Permissible medium temperature

Refer range table

Measuring system

Vapor filled thermal system with Phosphor bronze /

SS bellows

Wetted parts

■ Copper bulb (standard)

■ SS bulb (optional)

Range

Refer ordering matrix

Switch contacts

One SPDT contact system

On-off differential

Adjustable

Electrical rating

■ AC-1: 10A, 230V 50/60 Hz

■ AC-15: 4A, 230V 50/60 Hz

Electrical entry

1/2" NPT(F)

Ingress protection

IP67

Mounting

Wall, panel

Weight

Approx. 700 grams

Ordering matrix

Range in °C	Capillary Length Meters (M)	Adjustable differential		Maximum working temperature in deg C
		Contact system		
		At min. temp	At max. temp	
25 ... 90	3, 5, 8	2.4 ... 10	3.5 ... 20	300
70 ... 150	3, 5, 8, 10, 12	6 ... 25	1.8 ... 6	215
120 ... 215	3, 8, 10, 12	7 ... 30	1.8 ... 9	260
150 ... 250	3, 5, 8, 10, 12	6.5 ... 30	1.8 ... 9	300
200 ... 300	3, 5, 8, 10, 12	5 ... 25	2.5 ... 10	350

★ In range 120 ... 215°C and 150 ... 250°C Capillary length 3 & 8 are non-standard thermal system. Available only on extended delivery basis. 10 & 12 Meters long thermal systems are available on request. Contact sales for price and delivery

Ordering matrix continued

Sensing element

Tin plated copper bulb and copper capillary with stainless steel armour on capillary

Capillary length

3 meters

5 meters

8 meters

Special

Contact version

One SPDT contact system.

One SPDT microswitch

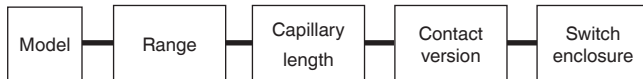
DPDT microswitch

Switch enclosure

ABS, plastic cover with polyester housing, weatherproof to IP67 as per IS/IEC:60529-2001 (standard)

Aluminium, powder coated cover with Die cast aluminium housing, weatherproof to IP67 as per IS/IEC:60529-2001

Model Number to be ordered as below



Example

Model: TSM-550

Range: 25 ... 90°C

Capillary length: 5 meters

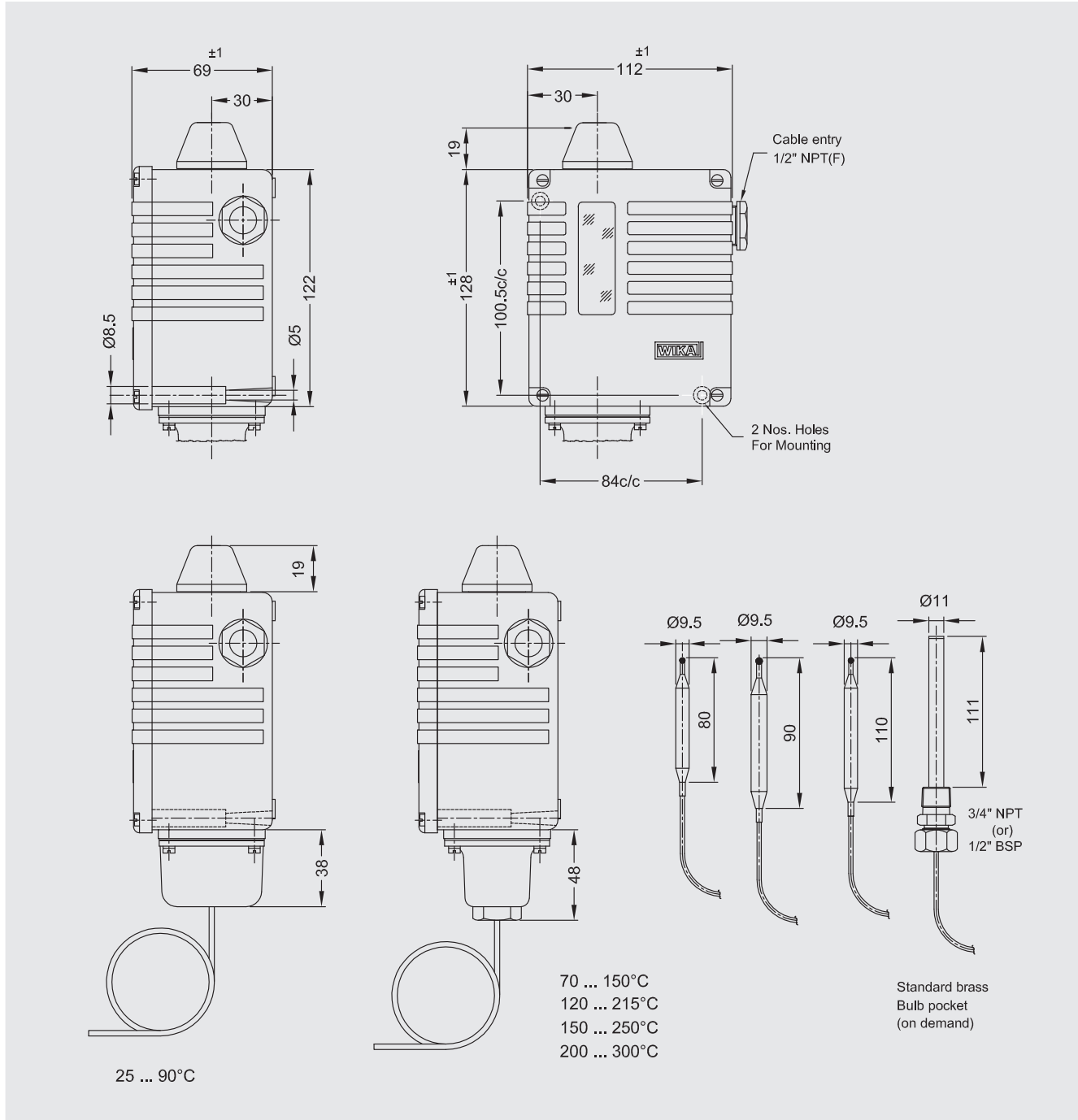
Contact version: One SPDT contact system

Switch enclosure: ABS, plastic cover with polyester housing, weatherproof to IP67 as per IS/IEC 60529-2001 (standard)

Bulb details

Range in °C	Capillary Length Meters (M)	Bulb dia	Blub length	
			Copper	SS
25 ... 90	3, 5, 8	9.5	80	69
70 ... 150	3, 5, 8, 10, 12	9.5	80	69
120 ... 215	5, 8, 10, 12	9.5	110	102
150 ... 250	3, 5, 8, 10, 12	9.5	110	102
200 ... 300	3, 5, 8, 10, 12	11	Not available	102

Dimensions in mm



Ordering information

Model / Range / Capillary length / Contact version / Switch enclosure

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