Switzer |

TEMPERATURE SWITCH

LOW COST **WEATHERPROOF**

Frince SERIES

● HIGH REPEATABILITY ● COMPACT ● TAMPER PROOF SETPOINT ADJUSTMENT ●



PRINCE 972 IN GH ENCLOSURE

Switzer Series 900 gas filled Temperature Switch is specifically designed for OEMs using components of high reliability.

movements restricted to absolute minimum which ensures long term stability.

Style GH Pressure Die Cast Aluminium housing is best suited for harsh and outdoor mountings.

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These compact instruments, incorporate mechanical

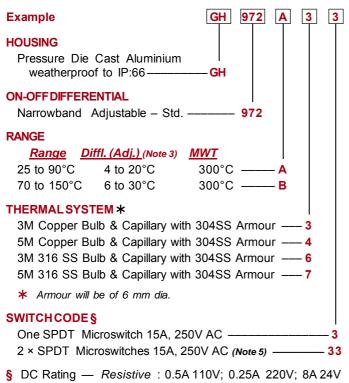
GENERAL SPECIFICATIONS

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Enclosure		Differential	Narrowband adjustable – std.
Style GH	Pressure die cast Aluminium,	Max. Working Temp.	300°C
	weatherproof to IP : 66	Ambient Temperature	(–)10 to 60°C
Range	Refer Ordering Matrix	Connection	
Range Setting	External with lock	To Thermowell	Std. : None
Sensor	Gas filled thermal system actuating	10 mennowen	
	a Phosphor Bronze Bellows.		Opt. : Sliding packing gland assembly with 1/2" BSPM connector
Wetted Parts	Copper / 316 SS Bulb		to firmly hold armour to user
Repeatability	± 1% FSR <i>(Note 1)</i>		Thermowell (Note 8)
Scale Accuracy	±5% FSR	Electrical	Std.: 3/4" ET Nylon Cable gland
Switching			for 8 mm OD cable.
Element	Instrument quality snap acting		Opt. : 1/2" NPTF direct cable entry
	microswitch 1 × SPDT or 2 × SPDT		3/4" NPTF through Adaptor
	(Note 5 & 6)	Mounting	Back panel / Wall
Rating	15A, 250V AC	Weight	600 Gms.

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ORDERING MATRIX

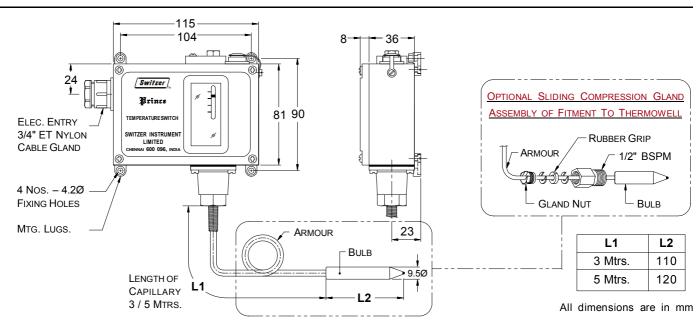


– Inductive : 0.2A 110V; 0.1A 220V; 7A 24V

MOUNTING DIMENSIONS

NOTES

- Accuracy and repeatability are same for a Temperature Switch, which is a switching device and not a measuring / indicating instrument.
- 2. Select working range of the instrument such that the set temperature lies in the mid 50% of the Instrument range.
- **3.** Switching differentials are at midscale and will vary with range setting and operating conditions.
- 4. On and off settings should not exceed the upper and lower range value.
- DPDT action is achieved by 2 × SPDT switches synchronised to practical limits i.e., ± 2% of FSR. Apply a multiplication factor of 1.5 to the minimum differential value for DPDT switching.
- 6. Contact life of microswitches are 5 × 10⁵ switching cycles for nominal load. To quench DC sparks, use diode in parallel with inductance, ensuring polarity. A 'R–C' network is also recommended with 'R' value in Ohms equal to coil resistance and 'C' value in micro Farads equal to holding current in Amps.
- 7. A more versatile and wide range of temperature switches are available in series 700.
- 304SS or 316SS Thermowell with 1/2" NPTM or 3/4" NPTM connection is available at extra cost.
- **9.** A shift of $\pm 2\%$ may be observed when temperature falls from full Maximum Working Temperature.
- 9. Accuracy figures are exclusive of test equipment tolerance on the claimed values.
- 10. All performance data guaranteed ± 5%.



This is not a contractual document. Prior notification of changes in specifications is impracticable due to continuous improvement

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