

TEMPERATURE SWITCH

WEATHER PROOF FILLED



IPS-TS-01

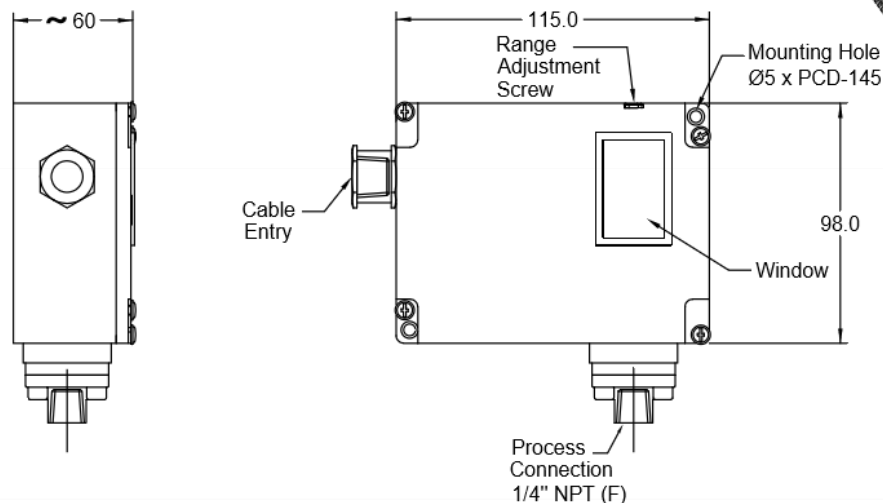
SPECIAL FEATURES

- HIGH ACCURACY & REPEATABILITY
- SS WETTED PARTS
- SET POINT LOCKING
- HIGHLY RELIABLE

APPLICATIONS

- BOILER, FURNACE, TURBINES, COMPRESSORS, OIL & GAS, CONVENTIONAL & NUCLEAR POWER PLANTS, WASTE WATER TREATMENT, MINES, PETROCHEMICAL, FOOD & PHARMACEUTICAL, CHEMICAL & FERTILIZER, CEMENT, TEXTILE, PUMPS, GLASS, PAINT, PULP & PAPER, MARINE INDUSTRIES.

DIMENSIONAL DETAILS



TECHNICAL SPECIFICATIONS - STANDARD VERSION

| | | |
|---------------------------|---|--------------------------------|
| Repeatability | : | ± 1% F. S. |
| Scale Accuracy | : | ± 3% F. S. |
| Scale | : | °C |
| Range | : | Refer "How to order" |
| Maximum Temperature Limit | : | 130% of F. S. |
| Differential | : | Fixed |
| Mounting | : | Direct / Panel |
| Process Connection | : | 1/2" BSP (M) |
| Enclosure Protection | : | IP66 |
| Enclosure Material | : | Die Cast Aluminum |
| Switch | : | 1 SPDT |
| Switch Rating | : | 15 A, 250 VAC, 0.2 A, 220 VDC |
| Sensor | : | Bulb (Gas filled) |
| Sensor Material | : | AISI 316 SS |
| Diaphragm | : | AISI 316 L SS |
| Cable Gland | : | DIN Connector for 1 SPDT |
| | : | PG 13.5 mm for 2 SPDT & 1 DPDT |



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TEMPERATURE SWITCH



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HOW TO ORDER

BASIC MODEL

ENCLOSURE

W Weather proof to IP 66 **X** Explosion proof to Class 1, Div. 2, Gas Groups B, C & D

PROCESS CONNECTION (# Not recommended for Revolving/ Swivel connections.)

3BM 3/8" BSP (M)* **4BM** 1/2" BSP (M) (Standard)* **5BM** 3/4" BSP (M)
3NM 3/8" NPT (M)*# **4NM** 1/2" NPT (M)*# **4MM** M20 x 1.5 (M)*
3TM 3/8" BSPT (M)*# **4TM** 1/2" BSPT (M)*#

* Suitable for stem diameter 6 to 10 mm

Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc can be provided on request.

PROCESS CONNECTION TYPE

ZI ADJUSTABLE (Standard) **ZJ** FIXED **KJ** REVOLVING / SWIVEL
 110 mm

STEM LENGTH (Below thread Max. 600 mm)

| | | | | | |
|------------------------------------|------------|--------|--------|--------|-------|
| Minimum stem Length (Below Thread) | 130 mm | 120 mm | 120 mm | 120 mm | |
| Stem OD | 6 / 6.35mm | 8 mm | 9.5 mm | 10 mm | 12 mm |

PLEASE SPECIFY IN mm

STEM DIAMETER

1U 6 mm **2M** 6.35 mm **2C** 8 mm (Standard) **2I** 9.5 mm **2J** 10 mm **2K** 12 mm

RANGE

T100 10 to 100°C **T250** 50 to 250°C **T600** 100 to 600°C
T160 20 to 160°C **T400** 50 to 400°C

TYPE

A1 WITH RIGID STEM **A2** WITH CAPILLARY

CAPILLARY LENGTH (Max up to 15 Mtrs.)

IN METERS (e.g. 1.5 = 1.5 METERS 2.0 = 2 METERS)

CAPILLARY MATERIAL

PE AISI 304 SS **PG** AISI 316 SS

CAPILLARY COVERED WITH ARMOUR (Applicable with PE or PG if selected)

PF AISI 304 SS **PH** AISI 316 SS **PI** PVC (Ambient Temp. Max. 60°C)

TYPE OF MICRO SWITCH (* If selected, only option DPD is applicable for Micro Switch Rating)

1S 1 SPDT **2S** 2 SPDT **1D** 1 DPDT*

MICRO SWITCH RATING *(Applicable for 1 DPDT, Option 1D only & not applicable for Options 1S & 2S)

| Switch Code | Description | AC Rating | AC Rating (Resistive) | DC Rating (Inductive) | Available on 1 SPDT | Available on 2 SPDT |
|-------------|---------------------------------------|------------|--|--|--|-------------------------------------|
| GPL | Low Dead band and Fixed | 15 A 250 V | 2 A 24 V 0.4 A 110 V 0.2 A 220 V | 2 A 24 V 0.4 A 110 V 0.2 A 220 V | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| GPH | Standard Dead Band | 15 A 250 V | 6 A 24V 0.5 A 110 V 0.25 A 220 V | 5 A 24 V 0.05 A 110 V 0.03 A 220 V | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| GPA | Adj. Differential Micro Switch | 15 A 250 V | | | Adj. Differential of ZPD, ZPP, ZDD | NA |
| GPG | Gold Plated Contact | 1 A 125 V | 0.5 A 28 V | | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| SES | Environmentally sealed Silver Contact | 15 A 250 V | 0.4 A 125 V | | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| SEG | Environmentally sealed Silver Contact | | 1 A 28 V | | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| HSS | Hermetically sealed Silver Plated | 4 A 230 V | 3 A 28 V | 2 A 24 V | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| HSG | Hermetically sealed Gold Plated | 1 A 125 V | NA | NA | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| HDC | High DC Rating | 10 A 125 V | 10 A 125 V | 6 A 125 V | Fixed Differential of ZPD, ZPP, ZDD | Fixed Differential of ZPD, ZPP, ZDD |
| DPD | DPDT Micro Switch | 10 A 125 V | 0.2 A 250 V | | Fixed & Adjustable Differential of ZPD, ZPP, ZDD | NA |

PU CALIBRATION CERTIFICATE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS

OPTIONS

PW CALIBRATION CERTIFICATE

DC DOUBLE COMPRESSION CABLE GLAND

SX SS TAG PLATE

WM WALL MOUNTING BRACKET

GH MATERIAL TEST CERTIFICATES***

PM 2" PIPE MOUNTING

Note : Modifications may take place and materials specified may be replaced by others without prior notice due to continuous developments.



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