

MODEL C1.03



PRODUCT DESCRIPTION

Explosion-Proof Switches are designed to reduce the risk of explosions in white goods and in hazardous environments. These explosion-resistant switches are environmentally sealed to prevent flammable gases from entering the switching cavity. It consists of a pressure switch that has a sealed temperature sensing bulb attached directly to the pressure port. The temperature sensing system is partially filled with a fluid. Process temperature changes cause proportional vapor pressure changes in the temperature sensing bulb that act on the diaphragm/piston assembly to actuate and deactivate a snap-action electrical switching element at discrete process temperatures







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KEY FEATURES

- Fix / Adjustable differential filed adjustable set point weatherproof to 1P66.
- External set point adjustable with locking

APPLICATION

- Textile machineries
- Power & steel plants
- Oil & gas, refineries
- Cement & glass industries
- Railway engines & Turbines
- Petrochemical & fertilizers
- Marine & furnace applications

MATERIAL OF CONSTRUCTION

Sensing Element	:	SS316 Bellow
Enclosure Material	:	Aluminum process die cast
Capillary	:	SS316 with SS304 Armour
Gasket	:	Neoprene

SPECIFICATIONS

System	:	Inter Gas Filled (Nitrogen)
Ambient Temperature	:	-1060 °C
Repeatability	:	± 1% of full scale
Scale Accuracy	:	± 1% of full scale
Switching Accuracy	:	± 1% of full scale
Over range	:	125 % of full scale
Range Adjustment	:	External
Differential	:	Fixed
Mounting	:	Bottom
Switch	:	SPDT Snap action micro switch
Switch Rating	:	15A 250VAC / 0.2A,24VDC
Set point	:	Between 20 to 80% of full scale
Process Connection	:	1⁄2 " NPT (M)
Ingress Protection	:	IP66



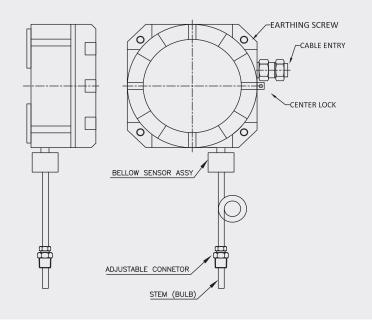




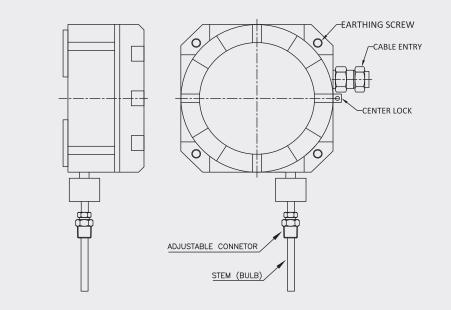


Dimensional Drawing:

Explosionproof Capillary Type Temperature Switch



Explosionproof Stem Type Temperature Switch







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MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	C1.03	SM	F	S 6	S4	SD1	AL	ххх	C1	ххх	12BM	ΤS	К2	12N	X16
Type Explosionproof Temperature Switch	C1.03	C1.03														
Version Stem Type Capillary type	SM CP		SM													
Differential Fixed Adjustable	F			F												
Bellows SS 316	S6				S6											
Steam/Capillary SS 316 SS 316L	S6 SL					S6										
Steam Diameter (mm) 6 8 10 12	SD1 SD2 SD3 SD4						SD1									
Enclosure Material Aluminum SS 304 SS 316	AL S4 S6							AL								
Range To be selected from Table 1 (Other custom ranges available on request)	XXX								XXX							
Calibration Increasing Decreasing	C1 C2									C1						
Set Point As per customer specify	XXX										XXX					
Connection ¹ / ₂ " BSP (M) ¹ / ₂ " NPT (M) M20 × 1.5 (M)	12BM 12NM M20M											12BM				
Type of switch Standard Adjustable differential Gold plated Environmentally sealed Harmatically sealed DPDT	TS TA TG TE HS K3												TS			
No. of switch 1 SPDT 1 DPDT 2 SPDT	K2 K3 K4													K2		
Cable Entry ½" NPT ½" BSP ¾" ET M20 × 1.5 (M) DIN Connector	12N 12B 34E M20M E7														12N	
Options Bracket for wall mounting 2" Pipe mounting bracket Calibration Certificate Material Test Certificate Wetted part complied to NACE Certificate of degreasing SS Tag plate	XBF XB6 X16 X17 X20 X25 X26															X16





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EXPLOSIONPROOF TEMPERATURE SWITCH



SAMPLE ORDERING CODE:

C1.03-SM.F.S6.S4.SD1.AL.XXX.C1.XXX.12BM.TS.K2.12N.X16

Note: Specification's and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and material specified may be replaced by others without prior notice.

