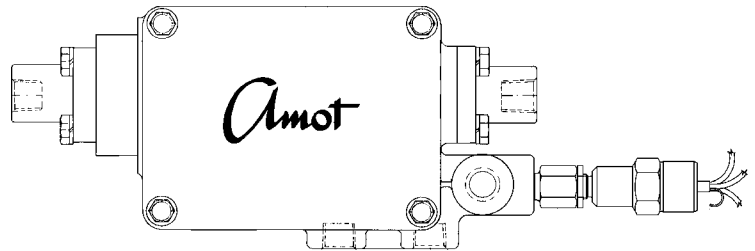




Model 4364

Differential Pressure Sensing Switch



Features

- EXPLOSION PROOF
- SETTINGS FROM 8 - 3500 PSI
- GULFPROOFED, ANODIZED ALUMINUM CONSTRUCTION
- ENVIRONMENTALLY SEALED, UL/CSA LISTED MICROSWITCH

Applications

- COMPRESSOR SUCTION / DISCHARGE PRESSURE SENSING, DETECTING ROD OVERLOAD
- DETECTING CLOGS ACROSS FILTERS, SEPARATORS, SCRUBBERS, AND MEMBRANES
- PUMP DIFFERENTIAL PRESSURES, DETECTING PUMP CAVITATION, FLUID LEAKAGE, DAMAGE

Operation/ Application

Model 4364 is used for sensing limits of increasing or decreasing differentials. A typical application would be on a gas compressor installation. The gas discharge line would be connected to port P1, and the suction pressure line would be connected to port P2. If the pressure at P1 exceeded that of port P2 by the set amount, (indicating compressor connecting rod overloading), the switch would send an electrical signal to shut down the engine. Another application would be to sense excessive pressure drop through a filter, indicating filter clogging.

Specifications

Housing Material	Black Anodized Cast Aluminum
Internal Parts	Steel & Aluminum
Valve Seat and Seals	Viton
Diaphragm Material (When Used)	Buna N; Viton Optional
Piston Material	Stainless Steel
Piston Seals	Teflon
Net Weight (Approximate)	6.0 lb
Electrical Switch Body	Black Anodized Aluminum
Switch Body Locking Nut	Plated Steel
Maximum Ambient Temp.	250°F
Internal Micro Switch	
Contact Arrangement	SPDT
Design Temperature	-65° to 400°F
UL / CSA Listed	
Gold Contacts	1A @ 125Vac / 28Vdc Max.
Silver Contacts	7A @ 250Vac / 28Vdc Max.
Switch Approvals	
Explosion Proof: CSA, Class 1, Div. 1 Groups B, C & D	
Suitable for Div. 1 hazardous area installation with	
Intrinsically Safe Circuits (I.S.)	

Model 4364 is furnished by the factory with the differential pressure setting compatible for a specific working pressure level. If this working pressure level changes, the unit must be readjusted if the same differential pressure setting is required. For example, Model 4364AA52E1A0 might be furnished by the factory so that with a pressure of 500 psi on port P2 the unit would trip when the pressure at port P1 reached 750 psi (250 psi differential). If the pressure level at port P2 increases to 600 psi, the unit will no longer trip at the same 250 psi differential, which would be at 850 psi. If this tripping point of 850 psi is required, then the unit must be readjusted. In the Pressure Range Table, the columns under Differential Pressure To Reset show the sensitivity of the various models. Figures shown do not vary proportionally with the setting of the trip points, but more with the pressure level.

Model Code System

Letters and numbers in the MTO space, other than nothing, A1 or AA, indicate that the unit is built to special requirements and some of the other code numbers may not be valid. Check with the factory for full specification of such models.

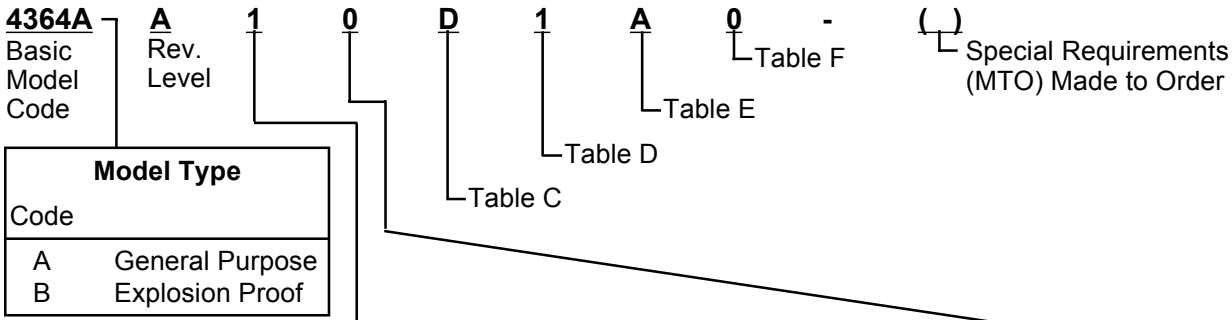


Table A			
Adj. Differential Pressure Range			Diff. Press to Reset (PSI)
Code No.	Decreasing	Increasing	Max. Wkg. Pressure
1	8 - 35 psi	8 - 35 psi	350
2	5 - 125 psi	25 - 125 psi	350
3	90 - 285 psi	90 - 285 psi	350
4	20 - 215 psi	50 - 250psi	1000
5	50 - 580 psi	100 - 650 psi	1000
6	150 - 1000 psi	300 - 1200 psi	4000
7	300 - 3300 psi	500 - 3500 psi	4000

Table B		
Thread and Finish		
Code No.	Thread	Finish
2	NPT	Gulfproof
3*	BSP (PL)	Standard
4*	BSP (PL)	Gulfproof

Table C		
Diaphragm Material (Ranges 1, 2 & 3 Only)		
Code No.	Diaphragm Material	Range
A	Buna	1, 2, 3
D	Viton	1, 2, 3
E	Viton	4, 5
F	Viton	6, 7

Table D	
Switch Contacts	
Code	Contact Material
1	Gold
2	Silver

Table E	
Electrical Connection & Wire Length	
Code	Connection, Wire Length
A	1/2" FNPT, 18 inch
B	1/2" FNPT, 15 feet
C	1/2" FNPT, 25 feet
D	Non Metallic Hub*, 18 inch
E	Non Metallic Hub*, 15 feet
F	Non Metallic Hub*, 25 feet

*Liquid Tight Hub with Buna N Seal

Table F	
Wire Type	
Code	Wire Type
0	Shielded 3 Conductor 22 Gauge, Teflon™ Insulated, Silicone Rubber Jacket

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