

SERIES 762-VERY HIGH PRESSURE LEVEL SWITCH HIGH RELIABILITY – MECHANICAL SIMPLICITY

FEATURES

- Mechanical Simplicity Produces Maximum Reliability
- Designed In Accordance With ANSI B31 Or Other
- Radiography And Dye Penetrant Testing
- Hydro Pressure Test At 150% Of Design Pressure
- 100% Operational Testing
- Low SPG Operation; To 20,000 PSIG Basic
- Interface Detection At Very High Pressures
- Insensitive To High Frequency Vibration
- No Seals To Leak, Magnetically Coupled
- Material Certificates, Mill Test Reports, And Test Documents Provided To User

OPERATION

The Model 762 Level Switch provides output switching at one elevation of a varying liquid level. The unit has its primary element mounted outside the process vessel. The external cage design is utilized to minimize process turbulence effects and so that the level alarm may be valved off from the process vessel. It can then be depressurized for testing and maintenance without disturbing the operation of the process. The output of the unit consists of a switching action at a preset liquid level elevation.

The liquid level rises and the displacer lifts the attractor in front of the switch station magnet. This external magnet pulls in and the output switch is actuated. Decreasing liquid level moves the displacer assembly downwards. The output switch deactuates when the attractor is pulled out of the switch station's magnetic field.

SWITCH STATION AND DISPLACER

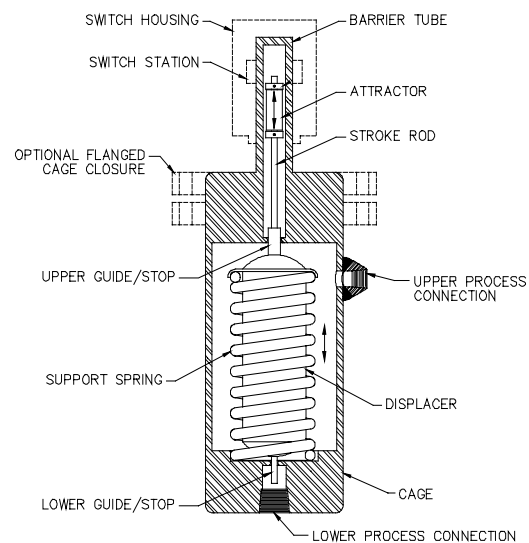
The switch station is on the outside of the barrier tube and is isolated from the process liquid. It is equipped with a magnet whose lines of force pass through the non-magnetic barrier tube. The magnet is pulled in against the outside of the tube and actuates the microswitch(s) when the attractor is lifted into the magnetic field inside the tube.

This unit utilizes thick wall displacers for sensing elements. The support spring offsets most of the displacer weight so that liquid buoyancy requirements are minimized. It is designed for very high pressure services, even those with low specific gravities.



Model 762-36-2" GL

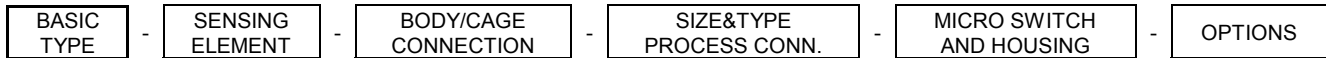
SCHEMATIC CUTAWAY



(Side/Side Type Available)

LIQUID LEVEL AND INTERFACE ALARM FOR VERY HIGH PRESSURES

MODEL NUMBERING SYSTEM



762 - 34S - W - 1"XXBWSB - S1C - AA

M/N	DISPLACER SENSING ELEMENT		MIN SPG		WKG PSIG	
	MATERIAL ELEMENT	CAGE	215°	450°	215°	450°
17S	316 SS	STEEL	0.60	0.65	1325	1015
17Y	316 SS	316 SS	0.60	0.65	1260	1015
19S	316 SS	STEEL	0.40	0.45	1010	810
19Y	316 SS	316 SS	0.40	0.45	1010	810
33S	316 SS	STEEL	0.40	0.50	3000	3000
34S	316 SS	STEEL	0.40	0.50	4500	4500
35S	316 SS	STEEL	0.40	0.50	6000	6000
36S	316 SS	STEEL	0.40	0.50	7500	7500
37S	316 SS	STEEL	0.40	0.50	10,000	10,000
38S	316 SS	STEEL	0.40	0.50	20,000	20,000

NOTE: UNITS FOR HIGHER PRESSURE AND TEMPERATURE ARE OPTIONAL; CONTACT THE FACTORY.

M/N	CONNECTION DESCRIPTION
* SW **	SOCKET WELD
* XXBW **	BUTT WELD
* 900#R **	ANSI FLANGE
2"GL	GL CLAMP HUBS
ZZ *	CUSTOM - AS REQ'D

REPLACE "*" WITH CONNECTION SIZE AND "*" WITH ARRANGEMENT:
"SB" = SIDE/BOTTOM, "S/S" = SIDE/SIDE,
"SSD" = SIDE/SIDE/DRAIN

MODEL NUMBER	DESCRIPTION CLOSURE
W	WELDED
F	FLANGED

MODEL NUMBER	DESCRIPTION
AA	NONE
TT	S.S. HOUSING
IN	INCONEL SPRING FOR UP TO 450°F SERVICE

MODEL NUMBER SWITCH-QUAN-HOUSING		SWITCH USAGE AND CONTACT RATING
4X	7BCD	
S1W	S1C	GENERAL PURPOSE 4A @ 24VDC 5A @ 250VAC
S2W	S2C	
S4W	S4C	
T1W	T1C	HIGH TEMPERATURE * 5A @ 250VAC
T2W	T2C	
L1W	L1C	HIGH AC CURRENT * 15A @ 250VAC
L2W	L2C	

* SUITABLE FOR 5A @ 24VDC OR 0.25A @ 125VDC

SPECIFICATIONS

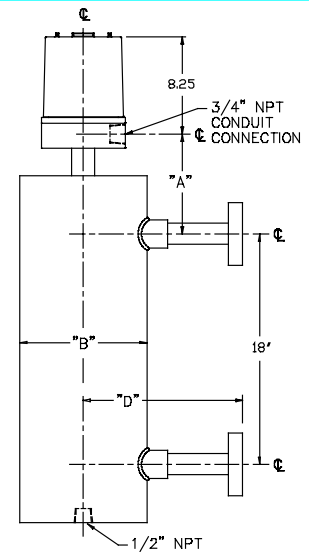
- Temperature: -20 to +215°F (-18 to +102°C);
-20 to + 450°F (-18 to 230°C) optional
- Basic Materials: A106 steel and 316 stainless steel
- Design Pressure: In accordance with ANSI B31, ASME Section VIII; or other recognized standards
- Support Spring: 316 S.S. to 215°F
Inconel 750 to 450°F
- Trim and Displacer: 316 S.S.
- Attractor: 316 or 416 S.S.
- Cage Style: Seal welded or flanged
- Process Connections: Socket weld, butt weld, flanged, Grayloc clamp hubs, or custom as required.

OPTIONAL

Custom modifications to suit a particular application; including materials, dimensions, etc.

M/N	DIMENSIONS (HIGH TEMP)	
	"A"	"B"
17*	7.7	6.6
19*	7.7	8.6
33	10.7	8.6
34	10.7	8.6
35	10.7	9.0
36	10.7	9.0
37	12.0	11.0
38	C/F	C/F

* DIMENSIONS ARE FOR SIDE/BOTTOM TYPE PROCESS CONN.



DESIGNED AND BUILT
IN THE USA

LABELING
CSA (CANADA)
NRTL/C (USA)
CE (EUROPE)

DELTA CONTROLS CORP

Engineered Sensors - For Difficult Services

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