

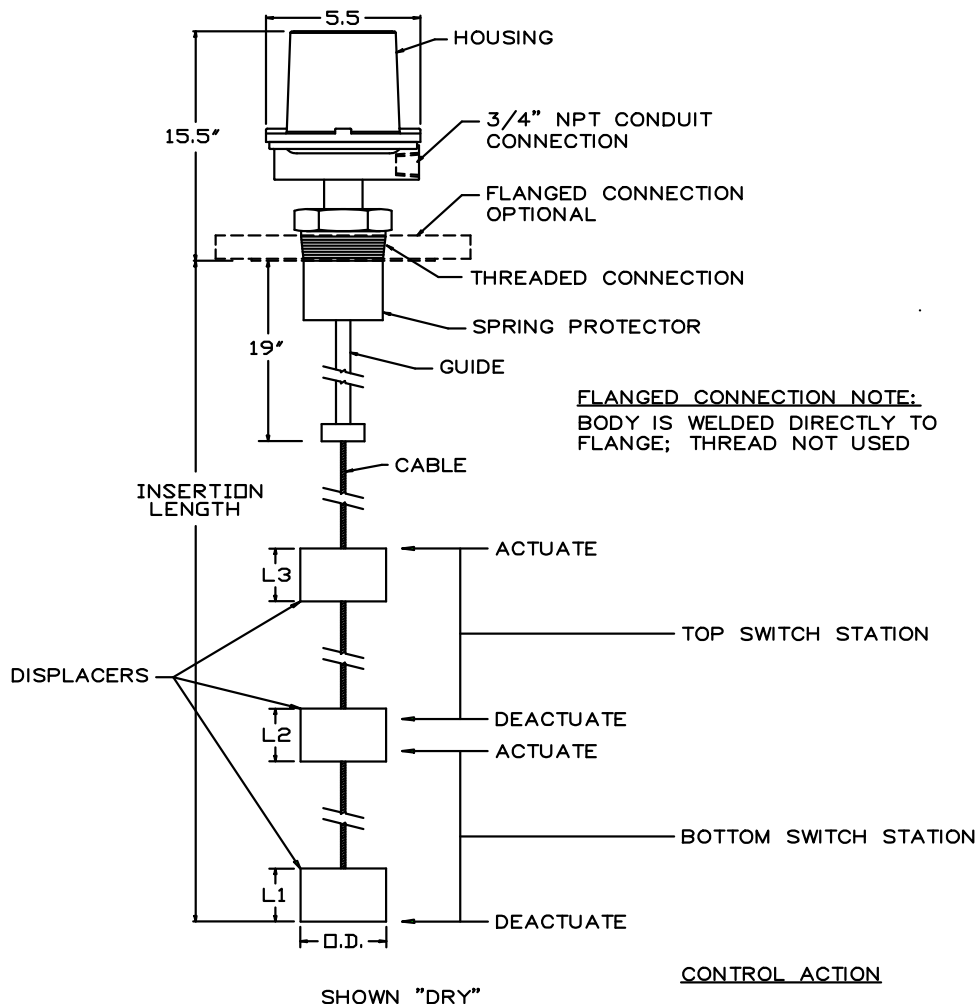
Model 717D

DISPLACER SWITCH - TOP INSERTED 2 STATION DIFFERENTIAL CONTROL, ON/OFF CONTROL OF 2 PUMPS, OR CONTROL 1 PUMP + HIGH OR LOW ALARM

The Model 717D utilizes a mechanism and displacer similar to the Model 717A three-point alarm. The difference is that an adjustable differential device has been added, and only two switch stations are utilized.

The lower switch station is activated when the liquid surface covers the middle displacer, and stays activated until the liquid level falls below the bottom displacer.

A typical application is to control a single pump with a high or low level alarm.



Delta Controls
CORPORATION

BASIC TYPE	-	SENSING DISPLACER	-	INSERTION DISTANCE	-	PROCESS CONNECTION	-	SWITCH & HOUSING	-	OPTIONS
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MODEL EXAMPLE 717A - 64Y - 10' - 4"/150RS - L2W - AA

BASIC TYPE	
M/N	DESCRIPTION
717A	3 STATIONS 3 DISPLACERS
717D	2 STATIONS 3 DISPLACERS

316 S.S. SPRING; UP TO 250°F,
INCONEL SPRING UP TO 400°F
C/F FOR HIGHER TEMPS

STD. WETTED PARTS:

316 S.S. TRIM

416 S.S. ATTRACTOR

SENSING DISPLACER										
717A DISPLACER (INCHES)						WKG PSIG @ °F			MINIMUM ANSI FLANGED	
M/N	MAT *	MIN SPG	MAX SPG	O.D.	LENGTH	100	250	450	NPT	NOZZLE
58Y	316 S.S.	0.45	0.55	3.5	8.1,12.5,12.5	385	300	250	NA	4" SCH 80
59Y	316 S.S.	0.50	0.60	3.5	8.1,12.5,12.5	385	300	250	NA	4" SCH 80
60Y	316 S.S.	0.55	0.68	3.5	5.9,10,10	385	300	250	NA	4" SCH 80
61Y	316 S.S.	0.60	0.75	3.5	5.9,10,10	385	300	250	NA	4" SCH 80
62Y	316 S.S.	0.70	0.90	2.9	7.1,12,12	500	400	325	3"	3" SCH 80
63Y	316 S.S.	0.80	0.99	2.9	7.1,12,12	500	400	325	3"	3" SCH 80
64Y	316 S.S.	0.90	1.10	2.9	5.9,10,10	500	400	325	3"	3" SCH 80
66Y	316 S.S.	1.01	1.25	2.9	5.9,10,10	500	400	325	3"	3" SCH 80
68Y	316 S.S.	1.15	1.45	2.9	4.8,8,2,8,2	500	400	325	3"	3" SCH 80
69Y	316 S.S.	1.35	1.80	2.9	4.8,8,2,8,2	500	400	325	3"	3" SCH 80
717D DISPLACER (INCHES)						WKG PSIG @ °F			MINIMUM ANSI FLANGED	
M/N	MAT'L *	MIN SPG	MAX SPG	O.D.	LENGTH	100	250	400	NPT	NOZZLE
70Y	316 S.S.	0.45	0.55	3.5	8.1,10,12.5	385	300	250	NA	4" SCH 80
72Y	316 S.S.	0.55	0.67	3.5	8.1,10,12.5	385	300	250	NA	4" SCH 80
73Y	316 S.S.	0.60	0.73	3.5	8.1,10,12.5	385	300	250	NA	4" SCH 80
74Y	316 S.S.	0.70	0.85	2.9	10,12,14.9	500	400	325	3"	3" SCH 80
75Y	316 S.S.	0.80	0.99	2.9	10,12,14.9	500	400	325	3"	3" SCH 80
77Y	316 S.S.	0.90	1.08	2.9	8.2,10,12	500	400	325	3"	3" SCH 80
79Y	316 S.S.	1.01	1.20	2.9	8.2,10,12	500	400	325	3"	3" SCH 80
81Y	316 S.S.	1.10	1.30	2.9	4.8,5,9,7,1	500	400	325	3"	3" SCH 80
82Y	316 S.S.	1.20	1.45	2.9	4.8,5,9,7,1	500	400	325	3"	3" SCH 80
83Y	316 S.S.	1.35	1.65	2.9	4.8,5,9,7,1	500	400	325	3"	3" SCH 80

* 316 S.S. AVAILABLE IN SOLID POLYPROPYLENE; WORKING PRESSURE OF 2200 PSIG @ 100°F; LIMITED TO 1520 PSIG @ 220°F MAXIMUM. CHANGE "Y" TO "P" AND ADD \$158.00 TO THE ELEMENT PRICE.

INSERTION DISTANCE		
M/N	DESCRIPTION	
10	10 FEET OF 316 S.S. CABLE	N/C
#	UP TO 50 FEET OF 316 S.S. CABLE, MAXIMUM	PER FOOT

REPLACE "#" WITH REQUIRED FEET OF CABLE FOR
MONEL OR HASTELLOY "C" CABLE: C/F

SWITCH & HOUSING						
▲ SWITCH STATION DESCRIPTIONS –					INTENDED SERVICE **	
W/P-N4	710A	710D	E/P-7CD,9	710A		
S1W S2W S4W	NA NA		* S1C * S2C S4C	NA NA		GENERAL USAGE
T1W T2W			T1C T2C			HIGH TEMPERATURE
H1W H2W			H1C H2C			ENVIRONMENTALLY SEALED
L1W L2W			L1C L2C			A.C. MOTOR LOADS
D1W D2W			D1C D2C			HIGH D.C. LOADS

FOR NEMA 4X (EPOXY PAINT): ADD \$ AND CHANGE "W" TO "X"

FOR NEMA 7, GROUP B: ADD \$ AND CHANGE "C" TO "B"

* FOR ALL 300 S.S. NEMA 7B HOUSINGS: ADD \$ AND CHANGE "C" TO "T"

**SEE DATA SHEET FOR SWITCH LOAD AND SERVICE RATINGS

PROCESS CONNECTION			
M/N	ANSI SIZE	STEEL	304 S.S. 316 S.S.
3"MPT*			
3"/150R*			
3"/300R*			
3"/600R*			
4"/150R*			
4"/300R*			

REPLACE "*" WITH "S" FOR STEEL,
"B" FOR 304 S.S.

"Y" FOR 316 S.S. (REQUIRES "SA"
OPTION)

CONSULT FACTORY FOR OTHER

OPTIONS	
M/N	DESCRIPTION
AA	NONE
IN	INCONEL SPRING, 400°F, INCREASE MIN. SPG REQ'D BY 4%
SA	316 S.S. SHEATHED ATTRACTOR
HH	120VAC ELECTRICAL HOUSING HEATER TO PREVENT CONDENSATION & ICING



CSA Ratings:

Housing types 'C' and 'T'

Cl I Div 1, Gr B,C,D; Cl II, Div 1 Gr E,F,G; Cl III Div 1

Class I Zone 1, Ex/AEx d IIB+H₂

Maximum contact ratings 480Vac, 15A, T5 with max
ambient 80°C. T6 without heater with max ambient 60°C



**Engineered
Reliability**

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