

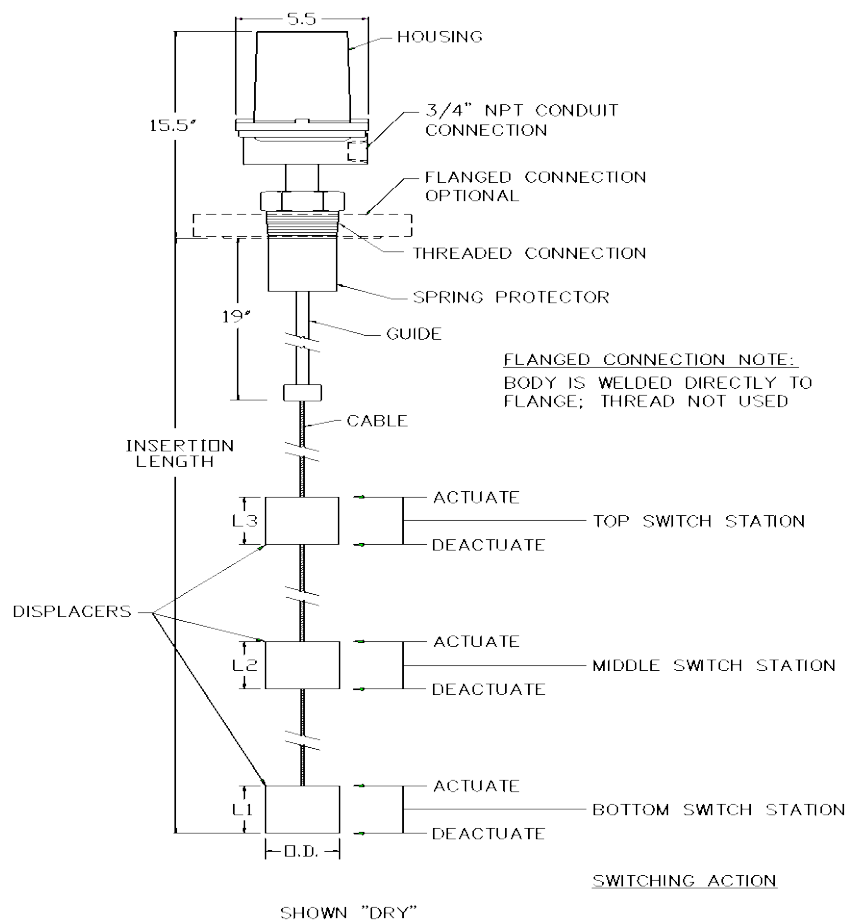
# Model 717A

## DISPLACER SWITCH - TOP INSERTED 3 ALARM POINTS

The Model 717A is very similar to the Model 716 displacer switch, which has only 2 alarm points. The major difference is that the stroking distance has been increased and a third switching station and displacer has been added.

A precise on/off action occurs in the appropriate switch station when the liquid level surface passes the elevation of the related displacer element.

The Model 717A is commonly used to control two pumps acting to empty a sump. Each of the two top displacers starts a pump; the lower displacer operates a DPDT switch, which acts to stop both pumps at the same place. Latch/unlatch pump starters are normally used in this arrangement.



**DELTA CONTROLS**  
CORPORATION

<b>BASIC TYPE</b>	-	<b>SENSING DISPLACER</b>	-	<b>INSERTION DISTANCE</b>	-	<b>PROCESS CONNECTION</b>	-	<b>SWITCH AND HOUSING</b>	-	<b>OPTIONS</b>
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MODEL  
EXAMPLE: 717A - 64Y - 10' - 4"150RS - S2W - AA

### BASIC TYPE

M/N	DESCRIPTION
717A	3 STATION 3 DISPLACER

316 S.S. SPRING: 250°F MAXIMUM;  
INCONEL SPRING TO 450°F  
BASIC: 316 S.S. TRIM,  
416 S.S. ATTRACTOR

### INSERTION DISTANCE

M/N	DESCRIPTION
10	10 FT OF 316 S.S. CABLE
#	UP TO 50 FEET OF 316 S.S. CABLE, MAXIMUM

REPLACE "#" WITH REQ'D FEET OF CABLE.  
FOR MONEL OR HASTELLOY "C" CABLE: C/F

### PROCESS CONNECTION

M/N	PROCESS CONNECTIONS
3" NPT* 3" 150R*	3" NPT 3" 150# ANSI FLANGE
3" 300R* 3" 600R*	3" 300# ANSI FLANGE 3" 600# ANSI FLANGE
4" 150R* 4" 300R*	4" 150# ANSI FLANGE 4" 300# ANSI FLANGE

REPLACE "\*" WITH "S" FOR STEEL,  
"B" FOR 304 S.S., OR  
"Y" FOR 316 S.S.  
CONSULT FACTORY FOR OTHER SIZES &  
RATINGS.

### SENSING DISPLACER

DISPLACER (INCHES)						WKG PSIG @ °F			MINIMUM ANSI FLANGED	
M/N	MAT *	MIN SPG	MAX SPG	O.D.	LENGTH	100°F	250°F	450°F	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

\* 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"

### SWITCH AND HOUSING

M/N FIRST CHARACTER	SWITCH TYPE - SERVICE AND LOAD RATINGS	Switch Temp Rating
S	GENERAL USE, COMPACT, 4 AMP @ 28VDC, 5 AMP @ 125VAC, 250VAC	-65 to 250°F (-54 to 121°C)
T	HIGH TEMPERATURE; 5 AMP @ 125VAC, 250VAC; 0.5A @ 125VDC; 0.25A @ 250VDC	-65 to 400°F (-54 to 204°C)
H	SEALED SWITCHES, 15 AMPS @ 125/250VAC, 0.5 AMPS @ 125 VDC, 0.25A @ 250VDC, 1/8HP 125VAC, 1/4HP 250VAC	-67 to 185°F (-55 to 85°C)
L	A.C. MOTOR LOADS; 15 AMP @ 125,250,480VAC, 0.25 HP @ 250VAC, 1/8HP @ 125VAC; 1/4HP @ 250VAC; 0.5A @ 125VDC; 0.25A @ 250VDC	-67 to 185°F (-55 to 85°C)
D	HIGH D.C. LOADS; 10 AMP @ 125VAC/DC; 0.25 HP @ 125VAC/DC; 3A(resistive) @ 250VDC; 1/2HP @ 125VDC POLARIZED (i.e., with negative side connected to common.)	-67 to 180°F (-55 to 82°C)
M/N SECOND CHARACTER	NUMBER OF CONTACTS	
1	1 SPDT CONTACT	
2	2 SPDT CONTACTS	
4	4 SPDT CONTACTS (TYPE S ONLY)	
M/N THIRD CHARACTER	HOUSING RATING	
W	Type 4X, IP65	
X	TYPE 4X, IP65 (EPOXY COATED)	
C	ALUMINUM - FOR HAZARDOUS LOCATIONS; SEE CSA RATINGS	
T	300 STAINLESS STEEL - FOR HAZARDOUS LOCATIONS; SEE CSA RATINGS	



#### CSA Ratings:

Housing types 'C' and 'T'  
CI I Div 1, Gr B,C,D; CI II, Div 1 Gr E,F,G; CL III Div 1  
Class I Zone 1, Ex/AEx d IIB+H<sub>2</sub>  
Maximum contact ratings 480Vac, 15A, T5 with max ambient 80°C. T6 without heater with max ambient 60°C

### OPTIONS

M/N	DESCRIPTION
AA	NONE
IN	INCONEL SPRING 450°F INCREASE MIN. SPG BY 6%
SA	316 S.S. SHEATHED ATTRACTOR
HH	120VAC ELECTRICAL HOUSING HEATER TO PREVENT CONDENSATION & ICING



**DELTA CONTROLS**  
CORPORATION

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