

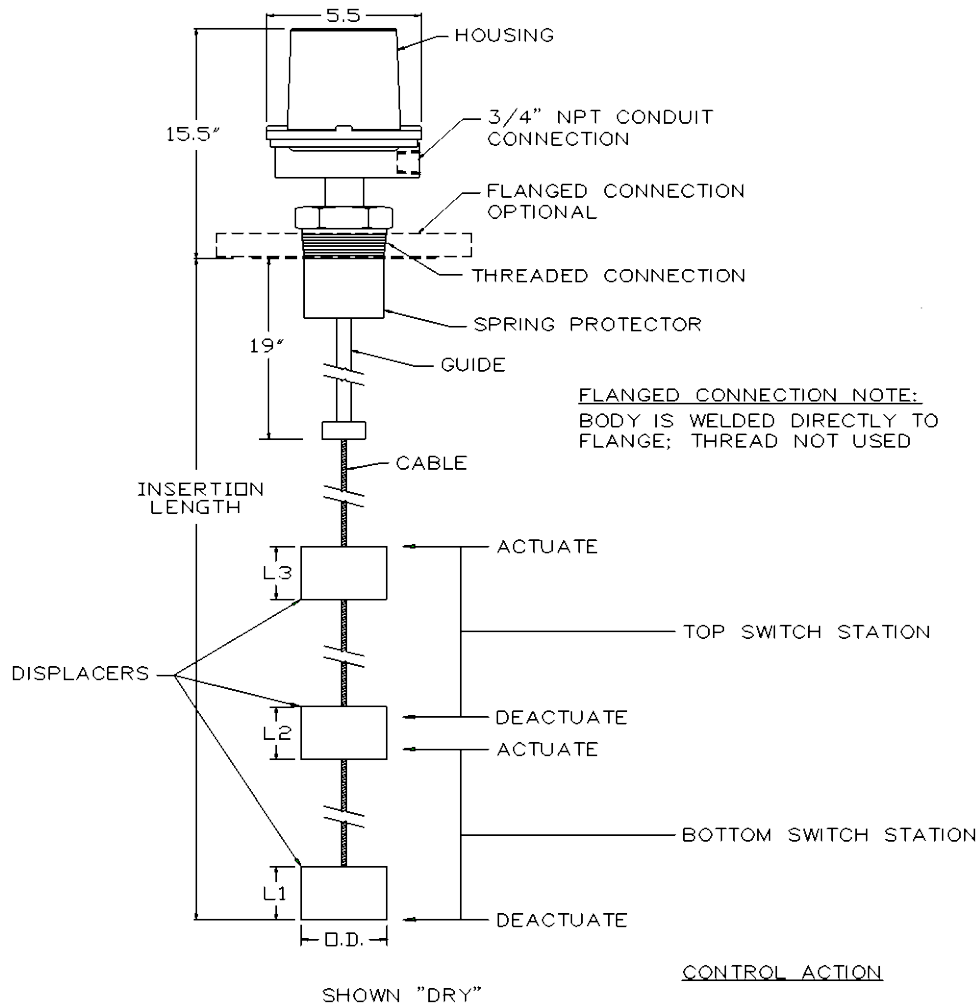
Model 717D

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 AND HOUSING | OPTIONS |
|-------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------|

MODEL
 EXAMPLE: 717D - 77Y - 15' - 3"NPTS - L1C - AA

BASIC TYPE

| M/N | DESCRIPTION |
|------|--------------------------|
| 717D | 2 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" NPT |
| 3" 150R* | 3" 150# ANSI FLANGE |
| 3" 300R* | 3" 300# ANSI FLANGE |
| 3" 600R* | 3" 600# ANSI FLANGE |
| 4" 150R* | 4" 150# ANSI FLANGE |
| 4" 300R* | 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'L * | MIN SPG | MAX SPG | O.D. | LENGTH | 100°F | 250°F | 400°F | 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. ALSO AVAILABLE IN SOLID POLYPROPYLENE; WORKING PRESSURE OF 2200 PSIG @ 100°F;
 LIMITED TO 1500 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 | |

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 |



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



DELTA CONTROLS
 CORPORATION

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