

**FLOAT TYPE LEVEL SWITCH - SIDE INSERTED  
ONE ALARM POINT**

**Model 740A**  
**Model 740D**

**MODEL 740A – 2 POINT ALARM**

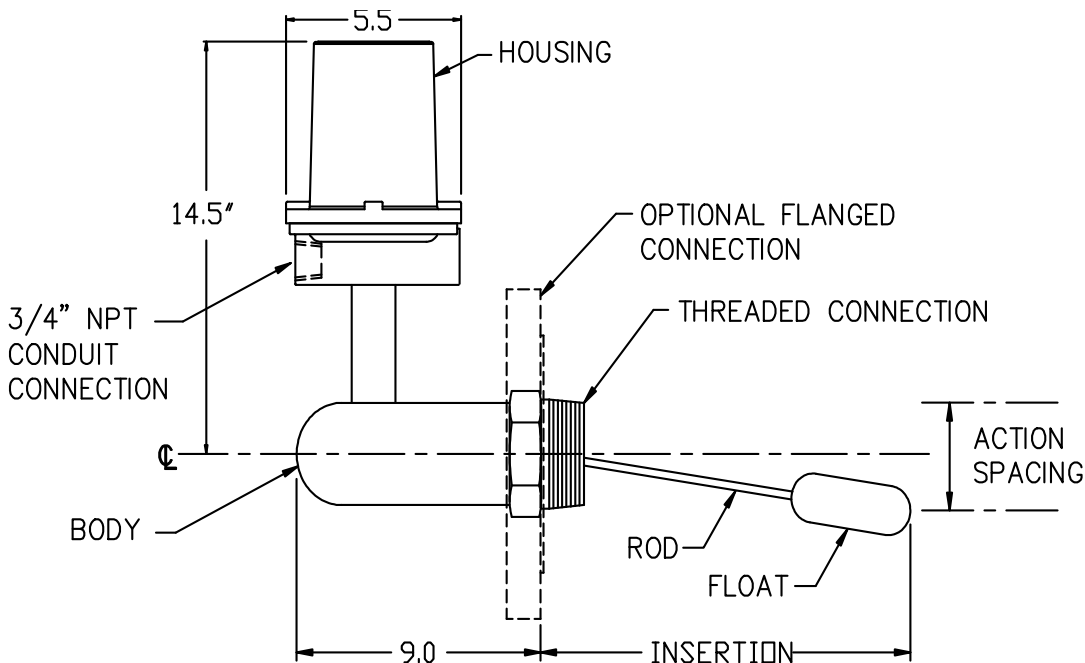
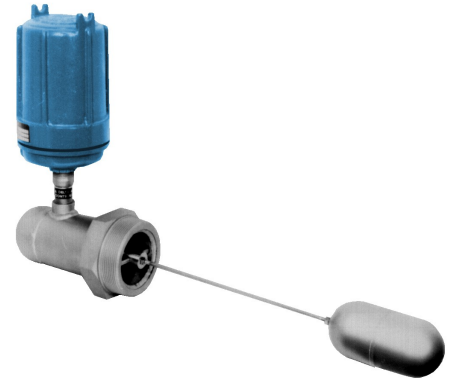
The Model 740A is used when the application requires more than a single alarm point provided by the Model 735. The 740A has a longer stroke and can provide two separate alarm points with up to 8" spacing between them. The spacing between the switch points is controlled by the length of the float insertion and the differential adjustment setting.

**MODEL 740D – 1 STATION, ADJUSTABLE DIFFERENTIAL CONTROL**

The Model 740D uses the same mechanism and float as the 740A. The difference is that an adjustable differential device has been added and only a single switch station is utilized. The float moves down as the liquid level drops. This causes the attractor to be moved into the field of the switch station magnet; the magnet is pulled against the sealing tube and the switch is actuated. The switch stays activated until the liquid level rises significantly (an adjustable amount). The attractor is then pulled out of the field of the switch magnet and the switch deactivates.

The amount of differential is controlled by the length of the float insertion and the setting of the differential device; up to 16" differential is possible.

Typical applications include "Low" alarm and "Low-Low" shutdown for pump protection; Control of a pump in a catch tank; and similar services.



**Delta Controls**  
CORPORATION

BASIC TYPE	-	SENSING FLOAT	-	INSERTION DISTANCE	-	PROCESS CONNECTION	-	SWITCH & HOUSING	-	OPTIONS
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MODEL EXAMPLE    740A    -    T    -    12"    -    3"MPTS    -    L2W    -    AA

BASIC TYPE	
M/N	DESCRIPTION
740A	2 POINT ALARM
740D	1 ADJ. DIFF.

BASIC: 316 S.S. TRIM,  
416 S.S. ATTRACTOR

SENSING FLOAT								
SENSING FLOAT				MINIMUM ANSI		WKG PSIG @ °F		
M/N	MAT	O.D.	LENGTH	PROCESS CONN		100	450	750
				NPT	FLANGED NOZZLE			
T	316 S.S.	2.6	7.0	*3.0"	3" SCH 160	275	185	155
16	316 S.S.	2.5	BALL	*3.0"	3" SCH 160	860	560	470
D	316 S.S.	3.5	BALL	NA	4" SCH 120	500	330	275
C	316 S.S.	3.5	BALL	NA	4" SCH 120	950	620	525
W	316 S.S.	3.5	BALL	NA	4" SCH 120	1400	910	770
Y	316 S.S.	3.5	BALL	NA	4" SCH 120	1760	1150	970

\* 2.5" NPT CONNECTION AVAILABLE ON A SPECIAL BASIS, C/F.

INSERTION DISTANCE								
INCHES INSERTION	MINIMUM SPG						DIFF ADJ	
	T	16	D	C	W	Y	MIN	MAX
12"	0.50	0.70	0.60	0.50	0.40	0.40	2.0	5.0
24"	0.50	0.77	0.55	0.53	0.60	0.73	3.5	8.0
36"	0.55	NA	0.50	0.55	0.80	NA	5.5	12.0
48"	0.60	NA	0.55	0.60	NA	NA	7.5	16.0

PROCESS CONNECTION			
M/N			
ANSI SIZE	STEEL	304 S.S.	316 S.S.
3"MPT *			
3"/150R *			
3"/300R *			
4"/150R *			
4"/300R *			
4"/600R *			
4"/900R *			

REPLACE "\*" WITH "S" FOR STEEL,  
"B" FOR 304 S.S.,  
"Y" FOR 316 S.S.  
(INCLUDES BODY & FLANGE)

CONSULT FACTORY FOR OTHER  
SIZES & RATINGS 600, 900, & 1500  
CLASS FLANGES AVAILABLE; C/F

OPTIONS							
OPTION M/N *	HOUSING EXTENSION LENGTH (IN)	MAX PROCESS TEMP (°F) - SWITCHES					
		CONDENSING SERVICE (STEAM, DOWTHERM)			NONCONDENSING (GAS, HYDROCARBONS)		
		D	S,L	H,T	D	S,L	H,T
AA	NONE	400	500	750	500	600	850
T1	6"	500	572	950	600	700	1100
T2	12"	600	650	1250	800	925	1500
SA	316 S.S. SHEATHED ATTRACTOR						
HH	120VAC ELECTRICAL HOUSING HEATER TO PREVENT CONDENSATION & ICING; INSULATE HOUSING FOR LOW AMBIENT CONDITION						

SWITCH & HOUSING						
▲ SWITCH STATION DESCRIPTIONS -						INTENDED SERVICE **
W/P-N4	740A	740D	E/P-7CD,9	740A	740D	
S1W		NA	* S1C		NA	GENERAL USEAGE
S2W		NA	* S2C		NA	
S4W			S4C			
T1W			T1C			HIGH TEMPERATURE
T2W			T2C			
H1W			H1C			ENVIRONMENTALLY SEALED
H2W			H2C			
L1W			L1C			A.C. MOTOR LOADS
L2W			L2C			
D1W			D1C			HIGH D.C. LOADS
D2W			D2C			

▲ FOR NEMA 4X (EPOXY): ADD \$ & CHANGE "W" TO "X"

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

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

\*\*SEE DATA SHEET FOR SWITCH LOAD AND SERVICE RATINGS



**Engineered  
Reliability**

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