



DESCRIPTION

The Multi Level Switch has many configurations. The level control can be used to control pumps, control alarms, including high level liquid and low level liquid. A magnetic equipped float follows the process level. As the level rises or falls the switch changes state giving a contact signal. Economically maintains a level, operates a single or dual pumps and can activate high alarms and low alarms.

KEY FEATURES

Max Length: 180"

Operating Temperature: -40° C ~ 80° C (HT: 120°C) SPST Reed Switch: 70 watt; 200VDC / 150VAC @0.5A SPDT Reed Switch: 20 wattl; 150VDC / 150VAC @0.5A Max Pressure: 80 PSIG

PRINCIPLE OF OPERATION

The switching action is achieved through the use of an internal magnet within the float assembly and its interaction with the switch mechanism. As the liquid level fluctuates inside the tank, the float moves. Its magnetic field actuates each reed switch inside the stem and completes an electrical circuit.

APPROVALS

Conforms to UL STD 61010-1 Certified to CSA STD C22.2#61010-1-12



SELECTION GUIDE

Fitting Type (1-1/4" and above, 1/2" NPT Conduit Up)	FITTING/STEM MATERIAL	NUMBER OF LEVELS	FLOAT OPTIONS	OPTIONS
25 = (1/4")	1 = 316 Stainless Steel	1 = 1 Switch Level	N = Ø52mm Ball; S/S, S.G.=0.65	N4 = NEMA 4X with terminal block
38 = (3/8")	2 = 360 Brass	2 = 2 Switch Levels	P = Ø40 X 35mm; S/S, S.G.=0.68	SPDT = Single Pole, Double Throw
50 = (½")		3 = 3 Switch Levels	Q = Ø46 X 76mm; s/s (DIFERENTIAL FLOAT)S.G.=0.96	HT = high temp 125°C max
75 = (¾")		4 = 4 Switch Levels	R = Ø47 X 48mm; PP, S.G.=0.5	ADJ = Adjustable
100 = (1")		5 = 5 Switch Levels	T = Ø47 X 47mm; BUNA, s.g.=0.42	
140 = (1¼")		6 = 6 Switch Levels	U = Ø40 X 45mm; BUNA, S.G.=0.4	
150 = (1½")			W = Ø30 X 45mm; BUNA, S.G.=0.4	
200 = (2")			X = Ø52mm Ball; S/S, Weighted	
250 = (2 ½")				
300 = (3")				
F100 = 1" FLANGE				
F150 = 1-1/2" FLANGE				
F200 = 2" FLANGE				
F300 = 3" FLANGE				
SAE5 = SAE5 FLANGE				
SANF = SANITARY FLANGE				
T = TUBE END				

EXAMPLE: SR200-1-6-U-N4

2"npt, stainless fitting, 6 levels, 52mm Ball s/s float, NEMA 4X Enclosure with terminal block. (Levels and switch state to be selected by customer.)

> OTHER OPTIONS: Custom mounts 90 degree bend (for side mount application) Custom Lead lengths IF YOU DO NOT SEE A SOLUTION FOR YOUR APPLICATION, PLEASE CONTACT US DIRECTLY. WE ARE HERE TO HELP!





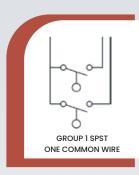


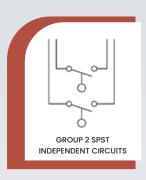
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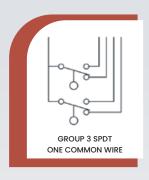
Large Multi Level Switch

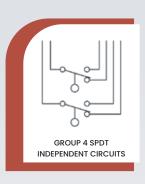
SWITCH WIRING & ELECTRICAL SPECIFICATIONS

Each switching point requires one float. For special applications, a single float can be used to activate two switching points with a minimum separation space of 1/8" (3 mm). The maximum number of actuation levels depends on the wiring.









SWITCH WIRING & COLOR CODE

LEVELS	GROUP 1 SPST	GROUP	2 SPST	GROU	P 3 SPDT	GROUP 4 SPDT		
Common Wire	Black	None		Black		None		
	NO/NC	NO	/ NC	NO	NC	Common	NO	NC
L1	Red	Red	Red	Red/Wht	Red/Wht/Blk	Red	Red/Wht	Red/Blk/Wht
L2	Yellow	Yellow	Yellow	Yel/Wht	Yel/Wht/Blk	Yellow	Yellow/Wht	Yellow/Blk/Wht
L3	Blue	Blue	Blue	Blue	Orange	Blue	Black	Orange
L4	Brown	Brown	Brown	Brown	Gray	Brown	White	Gray
L5	Orange	Orange	Orange					

ACTUATION LEVEL DIMENSIONS

NOTE:

• Dimensions are based on a specific gravity of 1.0. When using one float for two actuation points, contact the factory for the available switch ratings.

Gray

Gray

Gray

- Actuation levels are calibrated on descending fluid levels with water, unless otherwise specified.
- Standard tolerance on actuation levels is $\pm 1/8"$ (3 mm).
- Minimum distance dimension 'A' = 1.5"
- Minimum distance dimension 'B' = 3.0"
- Minimum distance dimension 'C' = 2.0"
- Standard wire lead length without enclosure is 24"

Levels are dimensioned from the bottom of the fitting. The switch state is selected in an empty condition.

Normally Open (N/O): Contact is open when the tank is empty. Normally Closed (N/C): Contact is closed when the tank is empty.

*One float can activate two switches when the lower switch is NC and the upper switch is NO.

