

Technical Information

Float switch

Applications:

The RoboFlot control switch is a pilot duty, narrow angle sensing device used to activate pump control panels, alarms, solenoids, and relays in sewage and non-potable water applications.

It is not sensitive to rotation.

It can be wired to work in either normally open or normally closed applications.

By changing the position of the cable weight the switch level can be adjusted.

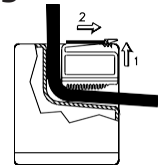


Technical data:

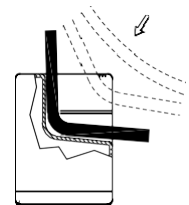
- Cable : Chlorinated polyethylene (CPE) AWG 16/3, outside diam. 5/16 inch,
- length : 33, 66 or 99 ft.
- Float : Corrosion resistant, high impact, polypropylene (PP) housing
- Dimensions : 2.7x4.8 inch.
- Cable weight : Corrosion resistant, high impact, PVC housing, weight: 1.8 lbs.
- Dimensions : 2.8x3.3 inch.
- Electrical : Max. 5A, 250V (not recommended for electrical loads less than 100mA, 12VAC and non-arcing loads)
- Water depth : Max. 30 feet, 13 psi.
- Temperature : Max. 140°F.
- Control-differential: 1.5 inch above or below horizontal.
- certified : UL listed for use in non-potable water and sewage. CSA certified.

Modifying the location of the cable weight:

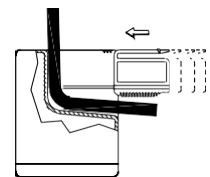
Remove clip and cable from weight as shown.



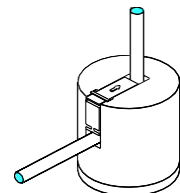
Lay cable in new position in weight channel as shown.



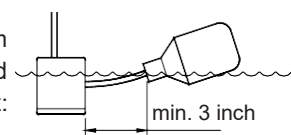
Align clip with weight groove and slide clip towards cable.



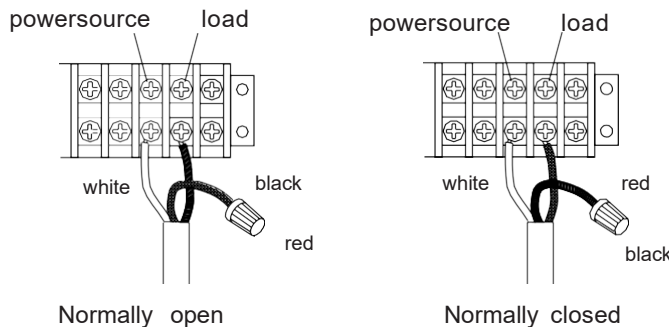
Snap clip snugly up to cable, manually forcing clip to the tightest position.



Minimum recommended tether length: 3 inch.



Cable connection:



ROBOT PUMPS

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Medium	68°F	140°F	Medium	68°F	140°F
acetic acid 10%	+	+ -	lactid acid 10%	+	+ -
acetic acid 100%	-	-	lactid acid 90%	-	-
acetone	-	-	milk	+	+
ammonia	-	+ -	nitric acid 25%	+	+ -
aniline	-	-	nitric acid 50%	+ -	-
beer	+	+	nitric acid 70%	-	-
benzene	-	-	oil (animal and vegetable)	+	+ -
bromine	-	-	oil (mineral)	+	+ -
butane	+	+	phosphoric acid 30%	+	+ -
caustic soda	+	-	phosphoric acid 90%	+	+ -
chlorine (wet)	-	-	phenol	-	-
chlorine (dry)	+ -	-	potassium chloride	+	+
chlorine, anhydrous liquid	-	-	potassium dichromate	+	+
chloroform	-	-	propane	-	-
chromic acid 50%	+	-	sea water	+	+
citric acid	+	-	silver nitrate 10%	+	+ -
cyclohexanone	-	-	sodium carbonate (not concentrated)	+	+ -
ether	-	-	sodium carbonate (concentrated)	+	+
ethyl alcohol	+	+ -	sodium chloride	+	+
formic acid (up to 50%)	+	+ -	sulfuric acid 10%	+	+ -
formic acid (100%)	+	-	sulfuric acid 70%	+	+ -
glycerol	+	+	sulfuric acid 98%	-	-
hydrochloric acid 10%	+	+ -	talc	+	+
hydrochloric acid 35%	+ -	-	tetrachloromethane	-	-
hydrofluoric acid 40%	+	+ -	toluene	-	-
hydrofluoric acid 70%	-	-	trichlorethylene	-	-
hydrogen peroxide 30%	+	+			
formaldehyde 40%	+	+			
iodine	-	-			

Chemical resistance

+ recommended

+ - moderate to severe effect

- not recommended

This chart is intended as a guide to be used at your discretion and risk.

The accuracy of these ratings cannot be guaranteed.