

LIQUID LEVEL SWITCH

15-650-PP

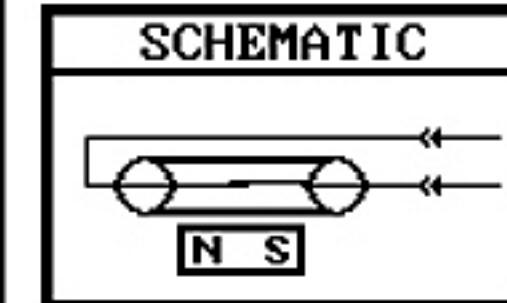
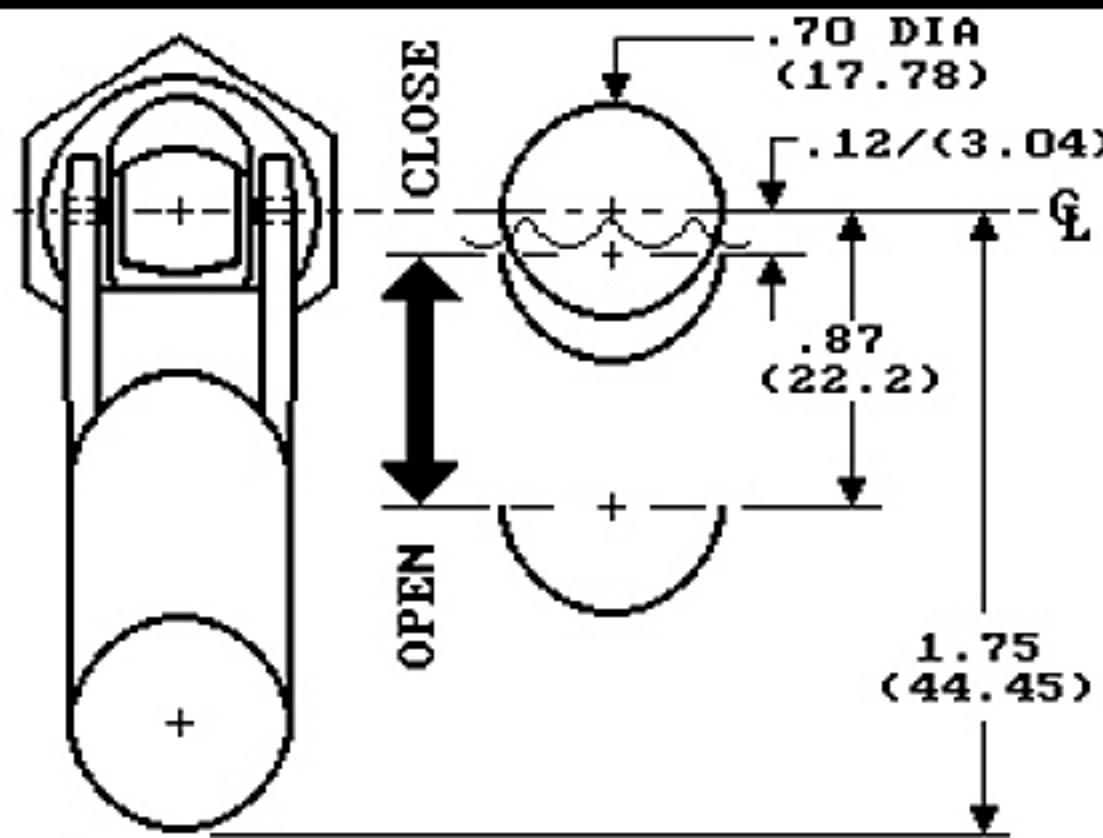
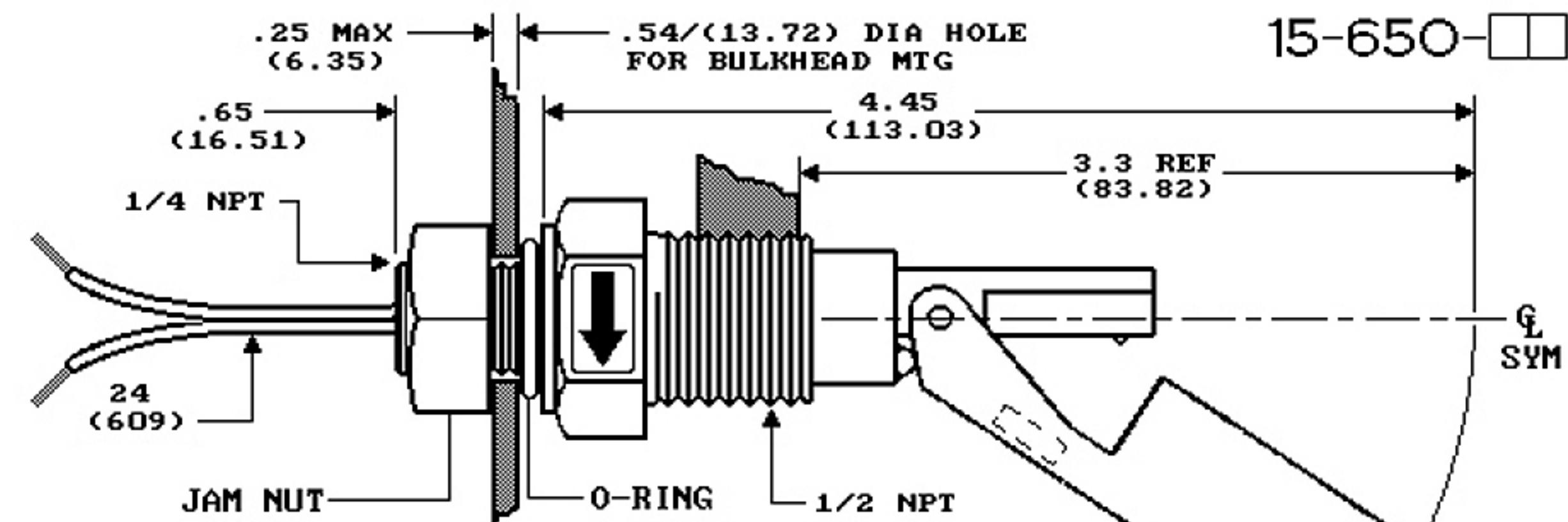
(PP=Polypropylene)



Quick Overview

15-650-PP Liquid Level Switch is the "Quintessential" side mounted level switch. 15-650 level switches are made up of two cleverly sculptured, injection molded sections. A housing section, containing a sealed in glass magnetic switch and a float section containing a permanent magnet. Level switch sections are hinged together by an integral clevis mechanism. The level switch float moves in response to changes in liquid level, thereby transporting the magnet into proximity with the switch. It is a simple concept. Move the float close to the body and the level switch "clicks" on. Move the level switch float away and the switch "clicks" off. 15-650s mount from the outside in using built in 1/2" NPT male threads and included jam nut and o ring.

LIQUID LEVEL SWITCH



INSTALL "OUTSIDE --> IN" ON 1/2 THD
 . . . OR
 INSTALL "INSIDE --> OUT" ON 1/4 THD OR
 WITH BULKHEAD JAM NUT.

15-650-□□

(PP=Polypropylene)
 (AC=Acetal)
 (KR=Kynar)

RoHS COMPLIANT

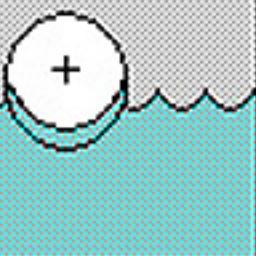
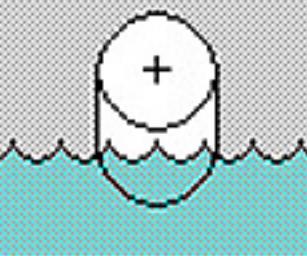
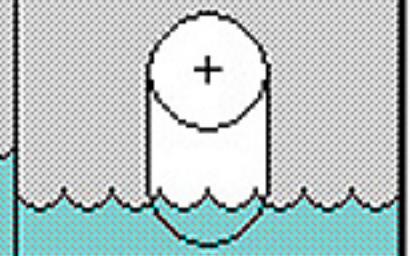
MODES OF OPERATION

The switch action of the 15-650 can be configured for either normally open or normally closed switch action depending upon the orientation of the unit at the time of installation. An orientation arrow symbol is molded into the hex. "Up arrow" denotes float is above the unit's centerline. Conversely, "down arrow" denotes float is below the unit's centerline.

CONTACT CONDITION VERSUS FLOAT POSITION

WET	DRY	ARROW	ABOVE C	BELOW C
Open	Closed	Up	X	-
Closed	Open	Down	-	X

POINT OF OPERATION IN SPECIFIC GRAVITY 1.0

Contact closes as level rises	Contact opens as level falls	Float arc envelope
		
.12 (3.04)	.87 (22.2)	1.75 (44.65)

TRIP POINT (DRY STATE BEHAVIOR)

NORMALLY CLOSED

Contact opens when gap between float heel and hard point is not less than .015/.381 and recloses when the gap between the clevis floor and close hard point is not less than .015/.381. The characteristic differential between closed and open states is .50/12.7 arc excursion.

NORMALLY OPEN

Contact closes when gap between clevis floor and closed position hard point is not less than .015/.381 and reopens when the gap between float heel and open hard point is not less than .015/.381. The characteristic differential between open and closed states is .50/12.7 arc excursion.

POINT OF OPERATION

The point at which the changing liquid level will cause switch actuation is relative the unit's center line and the specific gravity of the liquid. Forces acting on the float change over the arc of its excursion and as a function of whether or not the float is above or below the unit's center line. These phenomena are inconsequential when the unit is operated within its rated parameters.

ELECTRICAL RATING

 OKI ™	
OKI Sensor Device Corporation	
Contact life	Complete OKI Reed Switch Databook available at http://www.osdc.co.jp/
Contact rating	70 VA*, 50W* *Resistive
UL file E70063	OKI Sensor Device Corporation Reed Switch Model ORD229 Tokyo 193-8550, Japan
Max Switching Voltage	300AC, 350DC
Max Switching Current	AC 0.5AMP*, DC 0.7AMP*

MATERIALS OF CONSTRUCTION

15-650-PP	(Gray) Polypropylene
15-650-AC	(Red) Acetal
15-650-KR	(Natural) Kynar PVDF

APPLICATION ENVIRONMENT

Pressure (Hollow float)	50 PSI MAX @ 20°C	Derate, Zero @ 90°C
Temperature	90°C MAX	---
Specific Gravity	.8 MIN	Clear Liquid
Position Extreme	15° Cant MAX	Off center

* UL component recognition applies to the OKI switch Model ORD229. Observe applicable electrical codes when using this product.