



**ARANKA**

**USER MANUAL**  
**AICLS-22**  
**CONDUCTIVE**  
**LEVEL SWITCH**  
**SINGLE CHANNEL**  
**Ver. 1.0**



# TERMINAL DIAGRAM



L : POWER LINE 230VAC@50Hz  
N: POWER NEUTRAL 230VAC@50Hz  
E : EARTHING  
NO : RELAY OUTPUT 3 A NORMAL OPEN  
C : RELAY OUTPUT 3 A COMMAN  
NC : RELAY OUTPUT 3 A NORMAL CLOSE

## TERMINAL DISCRPTION

- 1 RED WIRE POWER LINE 230VAC@50Hz
- 2 BLACK WIRE POWER NEUTRAL 230VAC@50Hz
- 3 GREEN WIRE GROUND OR EARTHING
- 4 BLUE WIRE NO RELAY OUTPUT 3A NORMAL OPEN CONTACT
- 5 WHITE WIRE C RELAY OUTPUT 3 A COMMAN CONTACT
- 6 YELLOW WIRE NC RELAY OUTPUT 3A NORMAL CLOSE CONTACT

## Sensor Identity & Installation



**BLUE SENSOR FOR LO LEVEL  
KEEP IT AS EQUAL TO BLACK  
SENSOR LENGTH**

**YELLOW SENSOR FOR HI LEVEL  
CUT THE LENGTH AS PER YOUR  
HI LEVEL SENSING REQUIRE.  
NOTE: YELLOW SENSOR WILL  
BE ALWAYS SMALL THAN BLUE  
AND BLACK LEVEL SENSOR**

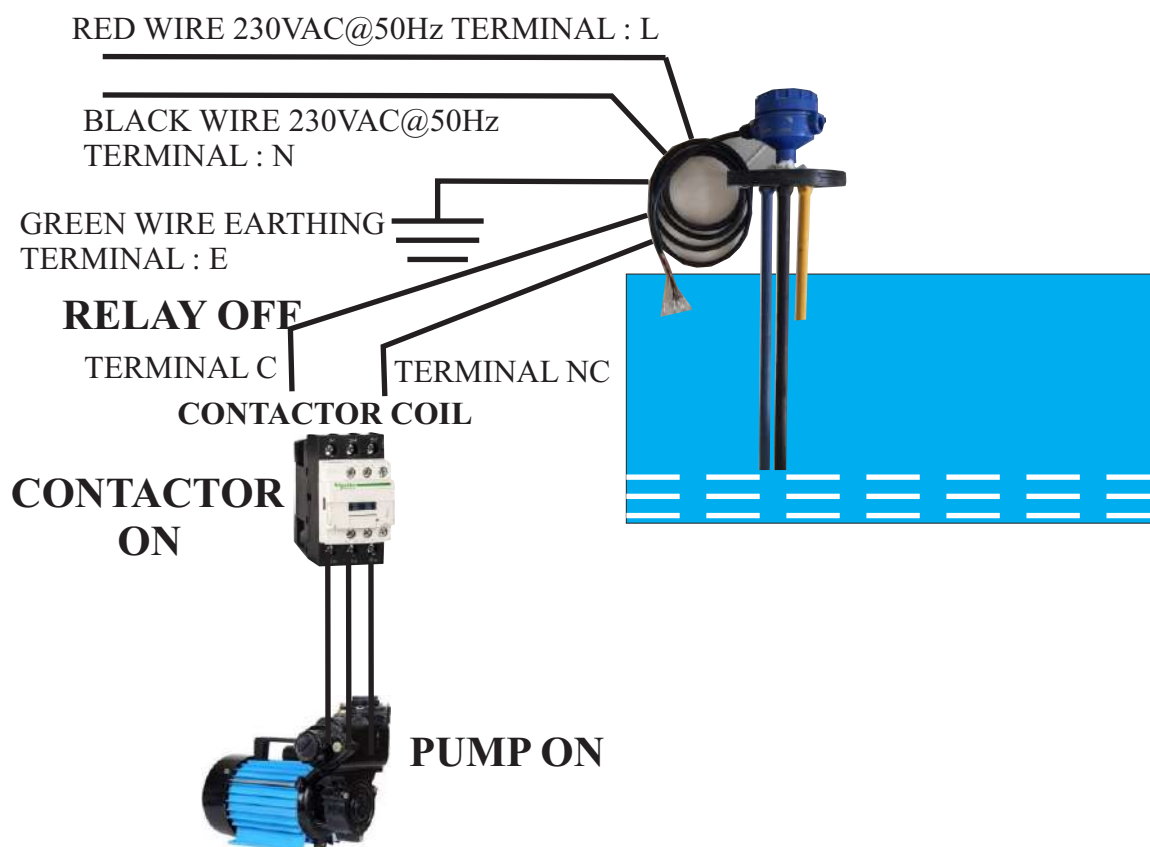
**BLACK SENSOR FOR REFERENCE LEVEL  
KEEP IT AS EQUAL TO BLUE SENSOR LENGTH**

## **SPECIFICATIONS**

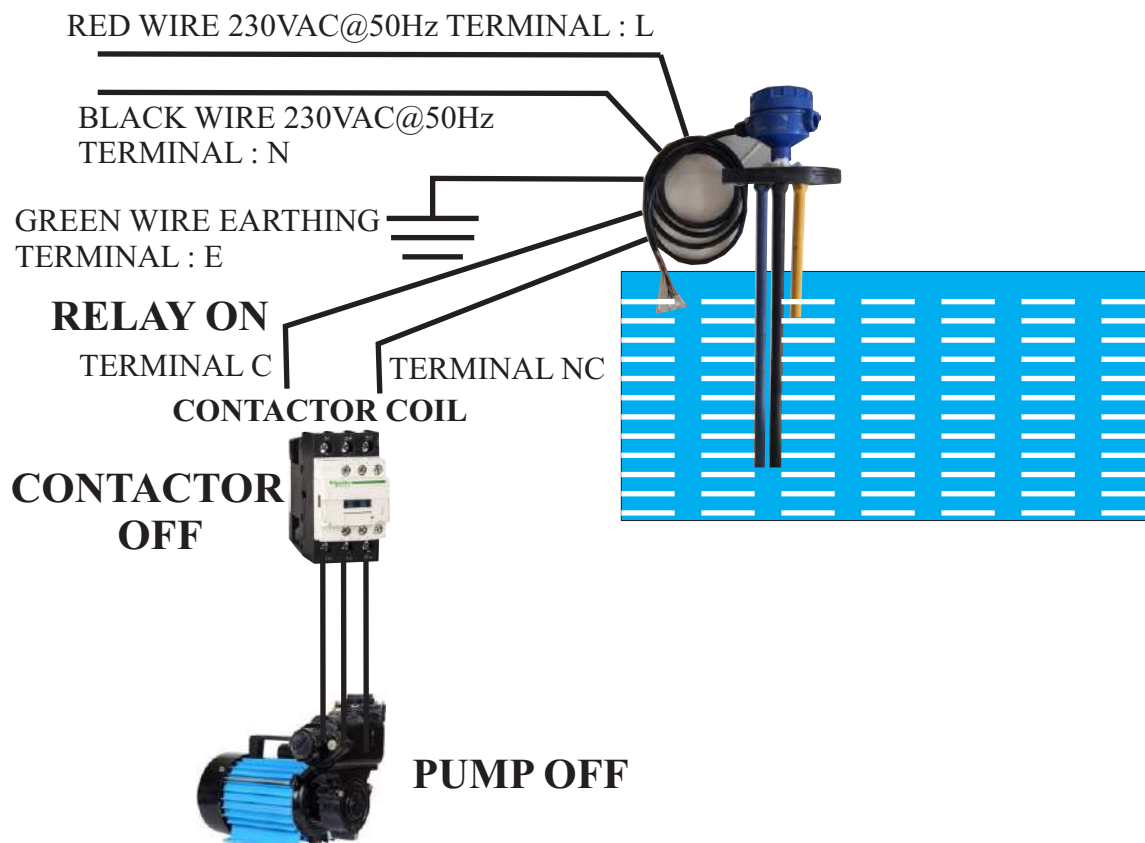
<b>POWER</b>	<b>: 230VAC , 50HZ</b>
<b>CONDUCTIVITY RANGE</b>	<b>: 200~2000MS</b>
<b>LENGTH</b>	<b>: 3 METERS</b>
<b>TERMINAL CABLE LENGTH</b>	<b>: 3 METER</b>
<b>RELAY OUTPUT</b>	<b>: 3A, 1CO, RELAY</b>
<b>SENSING</b>	<b>: HI &amp; LO CONDITION</b>
<b>HEAD</b>	<b>: IP67 ALUMINUM</b>
<b>SENSOR BODY</b>	<b>: S.S.316</b>
<b>FLANGE</b>	<b>: 80NB ANSI</b>
<b>FLANGE MOC</b>	<b>: P.P.</b>

# APPLICATION FUNCTION

## WHEN WATER LEVEL LO



## WHEN WATER LEVEL HIGH



## **FUNCTION OPERATION :**

- 1) When Tank water level go below Reference Sensor [BLACK COLOR SENSOR] & LO Level sensor [ BLUE COLOR SENSOR]. Level Switch Relay Output will be off and C & NC will be in contact, which will make Contactor ON and Contector will will make Pump ON.
- 2) When Tank water level Reached to Yellow High Level Sensor, All Three Sensor will Be Deep in Water, The Level sensor Switch will Trigger Relay ON And Contact will Switch Fron NC to NO, Which will Make Contactor OFF and Stop The Water Pump.
- 3) After Water Tank Full at high Level & Water Consumption Get started, When Water Level Go Below Lo Level & Reference Level Sensor it Will Again Start Water Pump.

## **Safety Precaution**



- 1) Please Read Terminal Properly
- 2) Do Not Open Aluminum Head
- 3) Relay Output Can Not Take Load More Than 3A
- 4) Yellow Pipe is Hi Level Sensing Pipe So it will be always Smaller Than Both Pipe
- 5) Pipe Distance Piece are Require to Keep Distance Between Three Pipe.
- 6) Pipe Distance Piece are Lock with Two Gurb Screws to make Lock so when Cutting Yellow Pipe Please Remove and Than Lock.
- 7) Gurb Screw are Alen Key Operated So Use Alen Key to Remove or fix Pipe Distance Piece.



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**MODEL : AICLS-22**



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