

WATER LEAKAGE DETECTOR

MODEL : KE-10

1.0 FEATURES :

- Water-resistant enclosure.
- Rugged design for long-term use.
- Accurate indication of probe.
- Separate indication for power on & water leakage.
- Straight & bend probe for different applications.

2.0 SCOPE:

Used to detect water leakage from the tubes of closed air circuit water cooled (CACW) cooler mounted on A.C. Motors.

3.0 CONSTRUCTION & WORKING :

Rigid & light weight aluminum die cast body & cover which provides better ingress protection for the unit. Two led bulbs are provided for indicating supply on & water leakage. Two types of probes i.e bend & straight are offered which can be connected to the tray of water chamber or the tubes according to the customer requirement. Water Leakage Detector (WLD) senses the presence of water leaked in a tray from the tubes of water cooler. The two sensing elements of the probe are electrically connected through water and negligible current in micro-amps starts flowing between them which is amplified by monitoring unit and an electromagnetic relay inside monitoring unit energizes.

4.0 FAULTS & REMEDIES:

A. Indicator does not glow

1. Check the tightness of the bulb.
2. AC - ON / OFF condition.

B. The relay in the Monitoring Unit does not energize when probe is dipped in water.

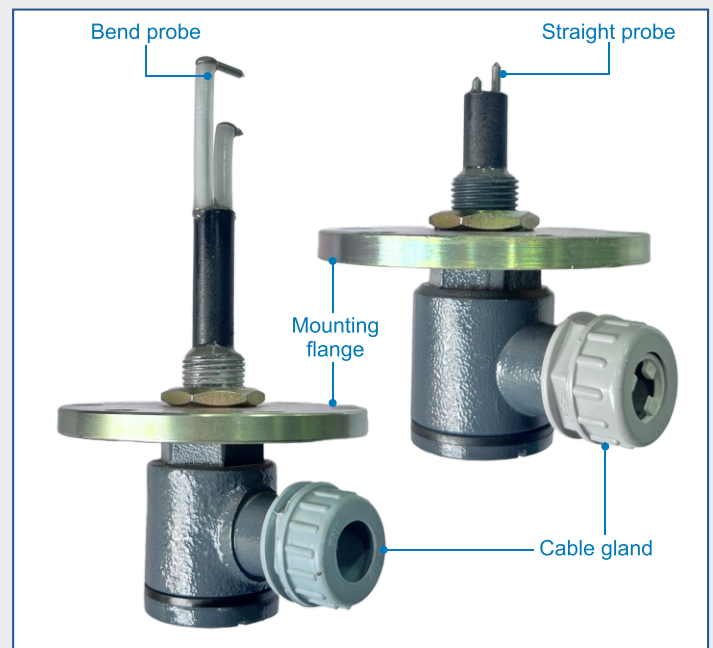
1. Whether relay energises when terminals 3 & 4 of the Monitoring Unit are manually short circuited with the ordinary wire link. If yes, then check the wires from probe for discontinuity or break and also the tightness of the probe leads to terminal 3 & 4.
2. Whether the tip or the round stainless steel wall is covered with dust or oil or with any external non conducting compound. If yes, remove it completely with water, thinner or kerosene.

C. The relay once energised does not de-energise when probe is removed from water.

1. The presence of water droplets between two sensing terminals. If yes, then clean the area between two sensing terminals with dry cotton.
2. The presence of any type of continuity between the probe terminals. If yes, then isolate the two terminals electrically from each other.

5.0 INSTALLATION:

WLD monitoring unit is to be wall mounted at eye level. Probe connection is taken from monitoring unit & is mounted on tray or upon the tubes with the help of mounting flange & suitable hardwares.



6.0 SPECIFICATION:

1. Rated voltage : 100 / 120VAC or 200 / 240VAC
2. Nominal frequency : 50 / 60 Hz
3. Temperature range : 0° to 55°C
4. Types of contacts : 2 Changeover
5. Contact rating : Inductive Resistive
110/220 VDC 0.25A 0.5A
110/220 VAC 0.5A 5.0A
6. Ingress protection : IP-55

7.0 HOW TO ORDER:

To order customer need to mention rated voltage & probe type. Eg: 1. WLD with 120 V AC with straight probe.
2. WLD with 240V AC with bend probe.



WATER LEAKAGE DETECTOR MODEL : KE-10

FIG.1

WLD ASSEMBLY

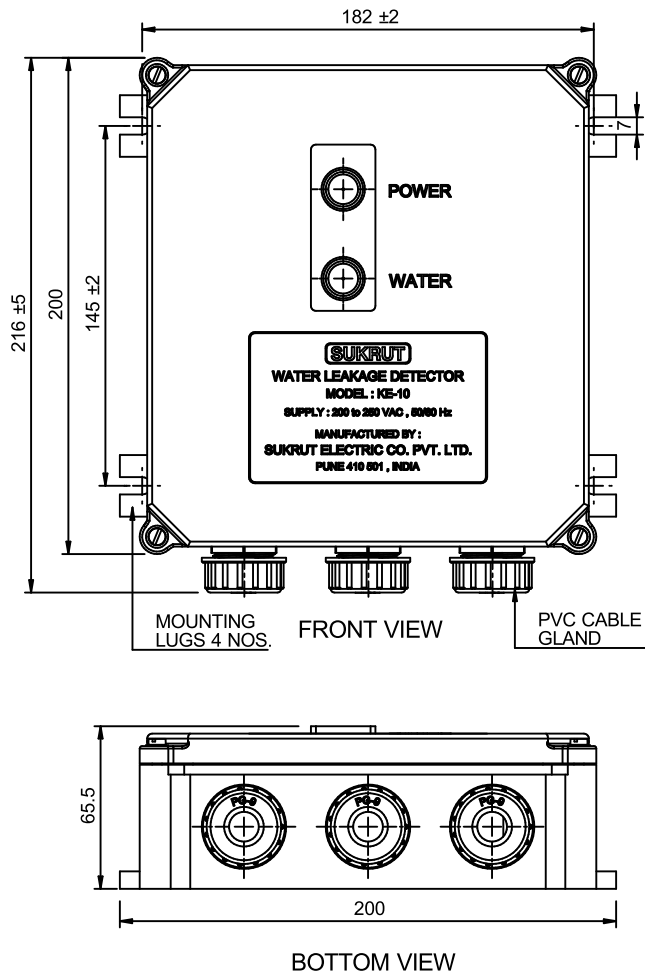
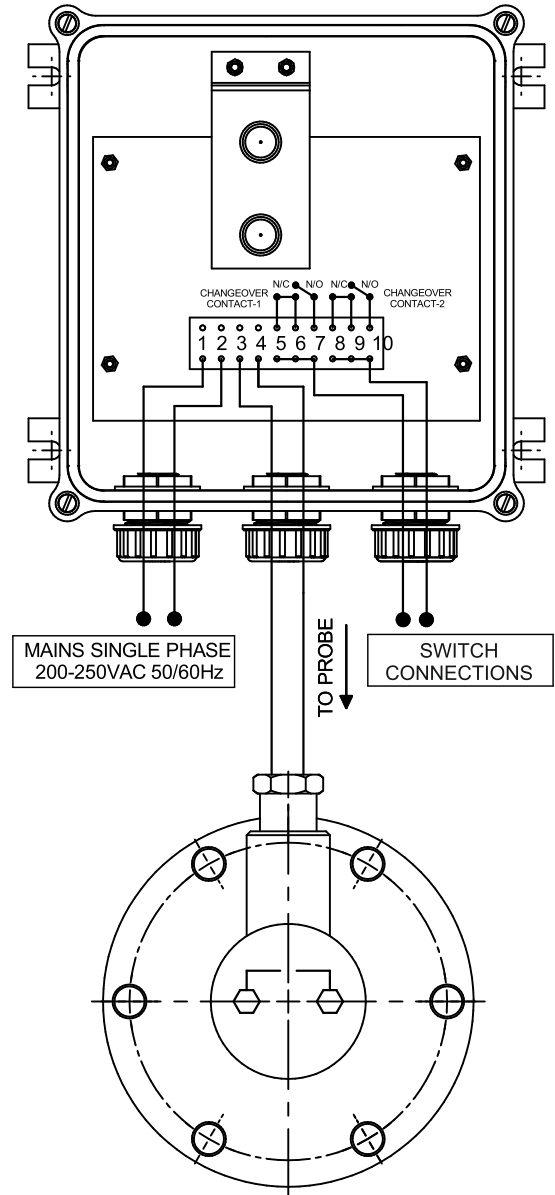


FIG.2

WLD CONNECTION DETAILS



NOTES:

1. ALL DIMENSIONS ARE IN MM EXCEPT OTHERWISE STATED.
2. ALL DIMENSIONS EXCEPT THE MOUNTING DIMENSIONS ARE GIVEN FOR REFERENCE ONLY.
3. INPUT SUPPLY VOLTAGE SINGLE PHASE IS REGULAR STANDARD. INPUT SUPPLY VOLTAGE AS PER REQUIREMENT IS POSSIBLE.
4. TYPE TEST REPORT AND THE DRAWING WILL BE CONSIDERED FOR ANY VARIATION IN SPECS & ALTERATION AS PER THE REQUIREMENT AS THE MONITORING UNIT PROBE ARE SAME.

GENERAL NOTES :

1. For any assistance, correspondence should be made giving reference of Sr.No. of WLD.



SUKRUT ELECTRIC CO. PVT. LTD.

Plot No. Pap-B-63, MIDC Chakan Industrial Area Phase - II, Village Bhamboli, Taluka Khed District Pune 410 501, Maharashtra, India.

Mobile : +91 75077 78841 / 75077 78842

Email : marketing@sukrutelectric.com

Web : www.sukrutelectric.com

