

Instructions for Model **SS-5 Water Alert**®

(Model **XSS-5** when using optional Sensor Cable)

Water Alert detector provides audible alarm and isolated dry relay contacts (DPDT) which transfer and hold when activated. Self-resets.



- Used in applications where tie-in to an existing alarm panel is desired (Building Management System, etc.). Can also be used to control valves, pumps and other electrical equipment.

Powering options -

- 9v Alkaline Battery (Qty.2)
- PS-3 Power Supply (Pg. 25-catalog)
- Voltage Module (Pg. 26-catalog)

Audible alarm -

- 100db @ 3 feet
- 10 day alarm duration
(Battery operation)

Relay contacts -

- DPDT (2- Form C)
- 28 VDC @1 amp. **MAX.**
(For high power applications
see catalog p.26 model **PR-WM**)

Power draw -

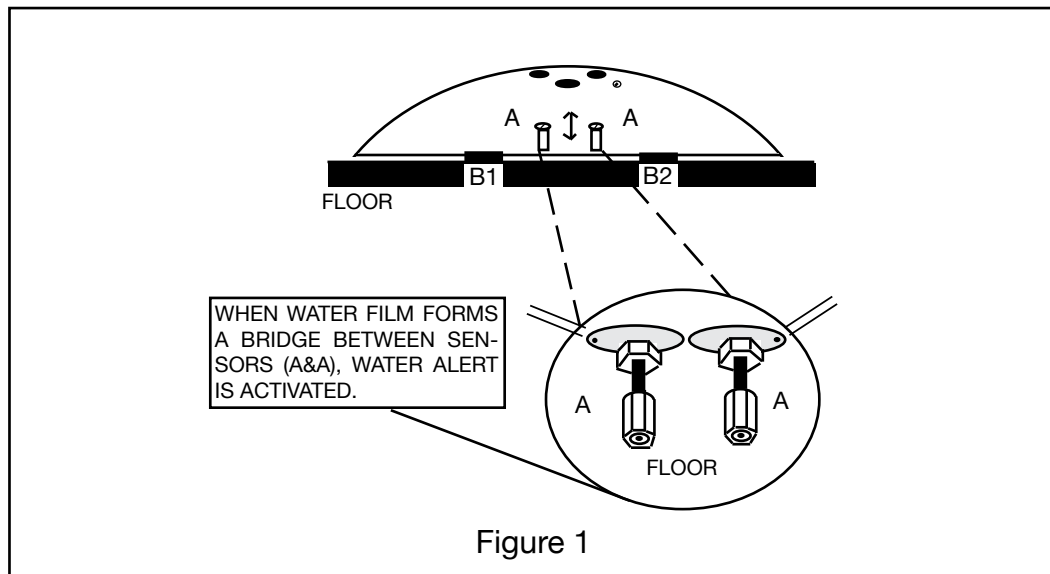
- 25ma @ 9vdc (activated)

Warranty -

- 5 Year Limited, Made in USA.

PRINCIPLE OF OPERATION

Refer to Figure 1. The SS-5 is activated by liquid bridging the adjustable sensors (A & A). The unit can detect water film from zero height, (sensors turned out to make contact with the floor), to 1/8" height, (sensors turned all the way in). The units are factory adjusted to activate with 1/32" water film height which is satisfactory for most applications. The pads B1, B2, B3 provide a gap between the case and the surface to admit water under the unit for detection. **CAUTION:** If the pads are removed, the unit may form a seal with the surface and prohibit the sensors from detecting water. If desired, the self-adhesive pad feature may be used by peeling off the thin protective layer from each pad. The unit will remain in place when located on the mounting surface. Replacement pads are available from Dorlen at no charge.



NOTE:

Although the two sensors (A & A) may be adjusted to make contact with the surface, it is recommended that a small gap be set between the sensors and the surface so undesired activation, caused by dampness or dirt film, does not occur.

If you have installation questions, call **toll free 1-800-533-6392**

Model SS-5 INSTRUCTIONS

SETUP AND ADJUSTMENTS

1. To adjust sensor height, hold straight edge across pads (B1 & B2). Turn sensors (A & A) out or until distance to straight edge equals the desired water detection level. See Figure 2.
2. Connect battery leads (E-E) to terminals of batteries (C-C). **Note: The buzzer and relay may activate momentarily.** Then insert the batteries (C-C) into the retainer clips (D-D).
3. Wait ten seconds, then test unit by touching wet fingers to both sensors. **The buzzer and relay should activate.**
4. Position unit in desired location and retest it by placing wet fingers across the heads of the two screws on which sensors are mounted **The buzzer relay should activate.**
5. When activated, the buzzer will be in alert condition for 2-3 seconds and turn off for 5-7 seconds to conserve battery resources. The relay will stay transferred until water subsides.
6. To reset the unit, simply remove it from water. If necessary, dry off the sensor area if it is excessively wet (if the unit was submerged).

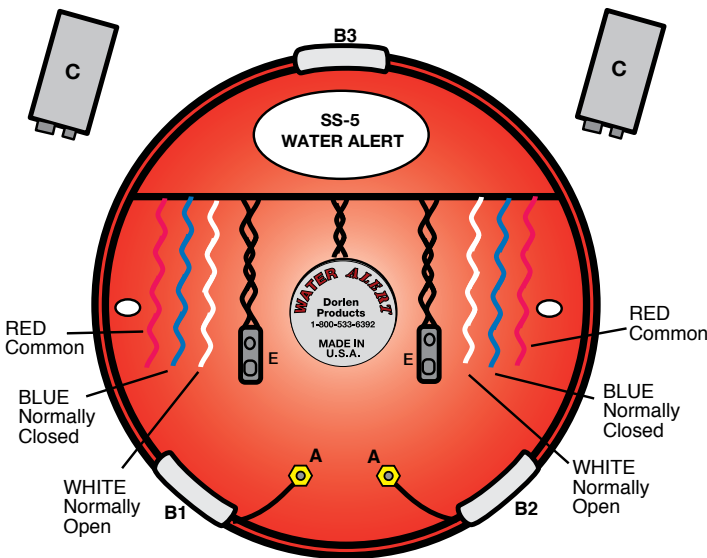


FIGURE 2
BOTTOM VIEW

BATTERIES

1. Two 9-volt alkaline batteries (NEDA size 1604A) are required. Approximate alarm duration time (after one year monitoring) is 3 days.
2. The **Alkaline** batteries should be replaced once a year. If the unit is activated often, the batteries might need to be replaced sooner.
3. Whenever the batteries are replaced, it is a good practice to wipe clean the top surface of the Water Alert and its sensors.
4. A Dorlen Power Supply, such as the PS-3, may be used in place of batteries. If so, follow the furnished instructions for wiring.

WIRING THE RELAYS

The relay outputs are explained in figure 2 below. (Relay activates when water is present. If water subsides, relay will reset.)



Not For Explosive Environments!

For Absolute Safety: DO NOT Connect line voltage to the relay contacts !

INTERNAL ISOLATED RELAY CONTACTS-
28VDC, 24VAC RATED @ 1 AMP.

CONTACT RATINGS:

1. Resistive - (a) 10,000,000 operations (typical) at low level.
(b) 1,000,000 operations min. at 0.5 amp/28VDC
(c) 100,000 operations min. at 1.0 amp/28VDC.
2. Inductive - 100,000 operations min. @ 200 ma. 320 mn, 28VDC
3. Lamp - 100,000 operations min. @ 100 mADC, 28VDC.

CONTACT RESISTANCE:

0.1 ohm max. before life
0.2 ohm max. after life
(At max. rated current, measured 1/8" from header)
RATED DUTY: Continuous

For controlling Voltage higher than 28vdc, contact Dorlen for information on the Model PR-WM Power Relay.



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