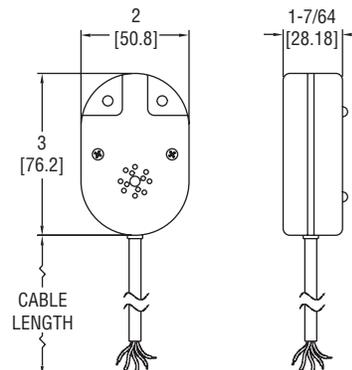




Series WD2 Water Leak Detector

Specifications - Installation and Operating Instructions



Designed for early detection of water leakage, the WD2 Leak Detector is the perfect solution to protect your equipment from water damage. Simply place it on a flat surface under HVAC equipment, dishwashers, washing machines, refrigerators, compressors, or electrical switchgear rooms and other potential leakage area. The WD2 relies on the electrical conductivity of water to change the resistance across the two contacts located at the base of the enclosure. When there is enough water to bridge the contacts, the resistance changes and triggers an alarm.

Operation

Model WD2-BP2 is battery powered, provides audible alarm, red LED visual alarm, and a SSR output. When conductive fluid is detected, the audible alarm will turn on for 10 seconds followed by a 30 second visual alarm repeated until the unit no longer detects fluid. The SSR will change state from open to closed. When the battery gets low the WD2 gives a warning by turning on the visual and audio alarms.

WD2-LP units require an 11 to 27 VAC/DC power supply. A green power LED illuminates when the unit has power. WD2-LP units provide audible alarm, red LED visual alarm, and either a SPDT or DPDT output. When conductive fluid is detected, the audible alarm and visual alarm will turn on and stay on. The relay will change state with open contacts going to closed and closed contacts going to open.

Model	Output	Power	LED Alarm	Audible Alarm
WD2-BP2	SPST NO SSR	Battery	2	Yes
WD2-LP	SPDT Relay	11-27 VAC/DC	8	Yes
WD2-LP-D1	DPDT Relay	11-27 VAC/DC	8	Yes
WD2-LP-D2	DPDT Relay	11-27 VAC/DC	8	No

SPECIFICATIONS

Service: Water.

Switch Type: WD2-BP2: SPST NO SSR; WD2-LP: SPDT relay; WD2-LP-D: DPDT relay.

Electrical Rating: WD2-BP2: Pilot duty rating 250 mA @ 24 VDC maximum. WD2-LP: 1A @ 24 VAC/DC, 1A @120 VAC.

Audible Alarm: BP Models: 10 seconds on, 30 seconds off. LP Models: Continually on. None on D2 model.

LED Alarm: BP Models: 10 seconds off, 30 seconds on. Two red LED's; LP Models: Continually on. Eight red LED's.

Power Requirements: BP Models: 3 V lithium battery (approximately 2 years of life); LP Models; 11 to 27 VAC/DC.

Power Consumption: BP Models: 0.9 mA steady state non-alarm, 3.0 mA during audible alarm, 2.4 mA during LED alarm; LP Models: DC power: 25 mA typical and 75 mA maximum, AC power: 30 mA typical and 85 mA maximum.

Electrical Connections: PVC insulated 22 AWG cable. BP Models: 0.8 ft (.25 m); LP Models: 4.8 ft (1.5 m).

Enclosure: ABS and acrylic.

Temperature Limits: 32 to 122°F (0 to 50°C).

Weight: WD2-BP2: 3.5 oz; WD2-LP: 4.3 oz; WD2-LP-D: 5.6 oz.

Mounting

The unit is made to place on a horizontal surface where leaking fluid can build up.

Mounting bracket A-154 is perfect for use in leak pans where it is desired to raise the sensing level above the bottom of the pan to eliminate nuisance alarms. The bracket can be mounted to the bottom of the pan and the height of the WD2 adjusted anywhere up to 1.75" (44.5 mm). Or the bracket can be used to mount the WD2 to the side of the drip pan or any side wall at a desired height.

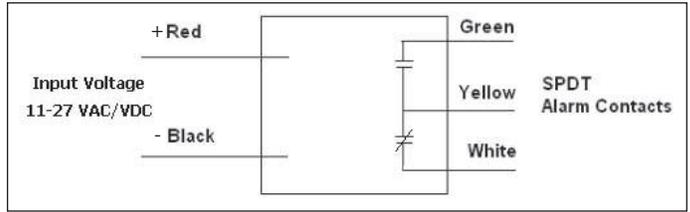
The A-154 includes one "U" bracket and two "L" brackets. For bottom mounting unscrew the body screws in the top of the WD2. Install the "L" brackets to the "U" bracket sides using the screws and nuts provided. Keep the screws loose for later adjustment of WD2 height. Place the "U" bracket on the top of the WD2 and line up the holes in the bracket with those in the body. The A-154 includes longer body screws that are used to now screw down both the bracket and the body top. The "U" bracket can be mounted in the up or down orientation but it must be mounted "down" to reach the full 1.75" height potential. Regardless of the "U" position keep the "L" feet down. Adjust the height needed for switch point and tighten screws holding "L" brackets to the "U" bracket. Place two screws, not provided, through the "L" bracket feet to secure the WD2 down. See picture below.



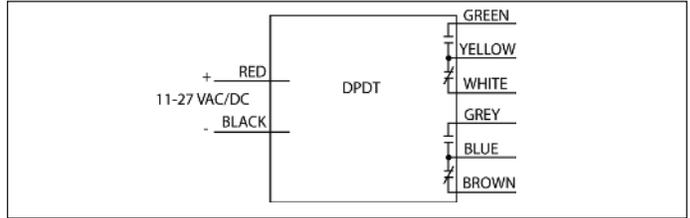
For side mounting unscrew the body screws in the top of the WD2. Place one "L" bracket on the top of the WD2 with the "L" foot up if internal mounting, place down if slipping over the drain pan wall for external mounting. Line up the slots in the bracket with the holes in the body. The A-154 includes longer body screws that are used to now screw down both the bracket and the body top. Place one screw, not included, through the "L" bracket feet to secure the WD2 down. See picture below.



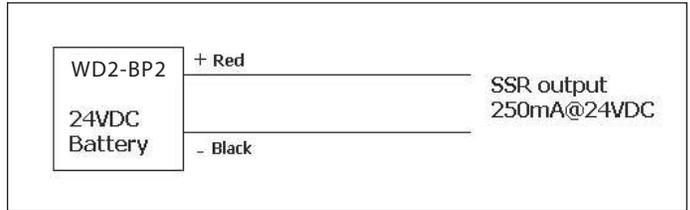
Wiring Diagram For WD2-LP



Wiring Diagram For WD2-LP-D



Wiring Diagram For WD2-BP2



BATTERY REPLACEMENT FOR WD2-BP

To replace the battery, remove the two cover screws and lift off the cover. Remove the two screws that secure the battery clamp. Dispose of the old battery appropriately. Insert the new battery (#CR2450) positive side up. Place the battery clamp over the new battery and insert screws. Replace cover and cover screws.

MAINTENANCE

Upon final installation of the Series WD2 Water Leak Detector, no routine maintenance is required. A periodic check of the system calibration is recommended. The Series WD2 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.