

# DUAL CHANNEL CONDUCTIVITY CABLE WATER DETECTOR

## Installation Instructions

### INTRODUCTION

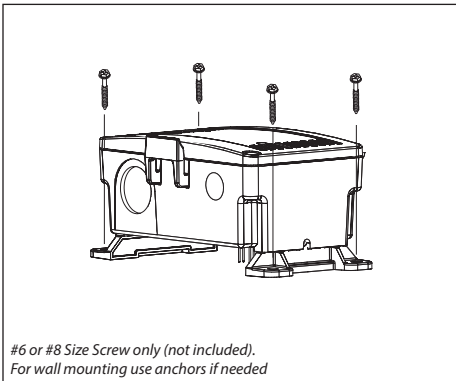
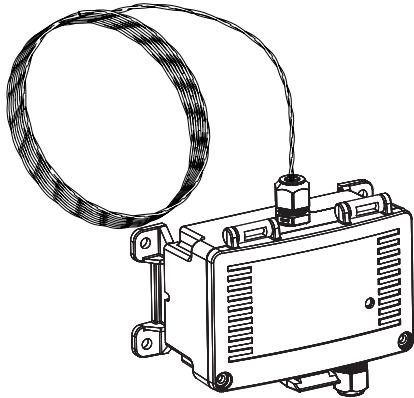
The dual channel conductivity cable water detector is used to detect the presence of water or conductive liquids. It features two sensing cables, each with an independent relay output and is designed to signal alarms if one or more of three conditions are met: water is detected, power is lost to the unit, or if there is an internal failure.

The dual channel water detector features two independent conductivity cables that are available in several lengths. An optional leader cable is also available in several lengths.

It is housed in an IP65 rated enclosure with height adjustable mounting legs. A tri-color LED provides visual status indication.

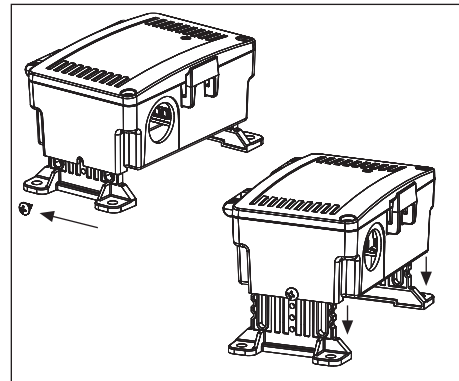
### BEFORE INSTALLATION

- Read these instructions carefully before installing and commissioning the water detector. Failure to follow these instructions may result in product damage.
- Do not use in an explosive or hazardous environment, with combustible or flammable gases, as a safety or emergency stop device or in any other application where failure of the product could result in personal injury.
- **Take electrostatic discharge precautions during installation and do not exceed the device ratings.**

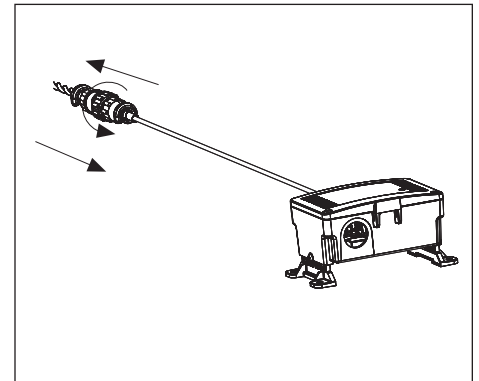


#6 or #8 Size Screw only (not included).  
For wall mounting use anchors if needed

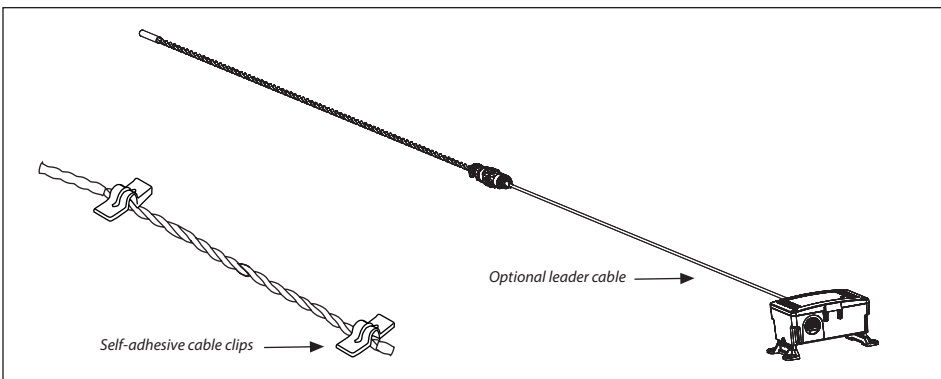
**1** Secure by applying a silicone adhesive to the mounting feet and placing the sensor in the area to be protected. For more permanent installations, fasten the sensor using the holes provided in the mounting feet.



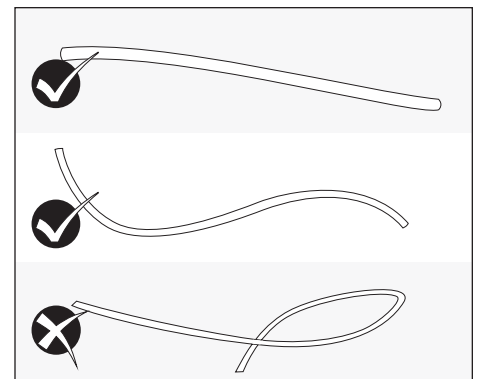
**2** The legs have five pre-set heights. To adjust, remove screws from both legs. Pull/push the legs to the desired height, and re-insert screws.



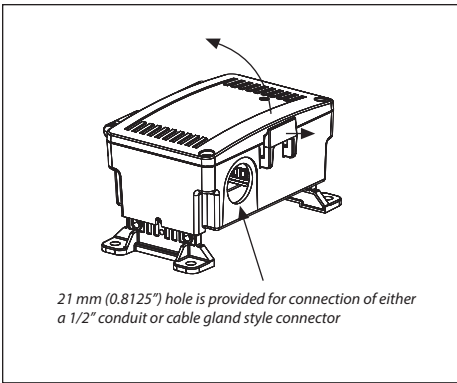
**3** If the device was ordered with a leader cable, the conductivity cable can be disconnected to assist in installation. To remove, twist connector counter-clockwise and pull apart.



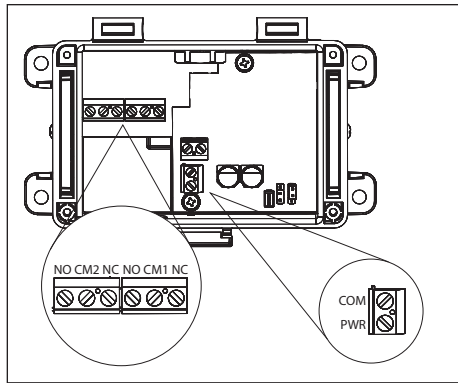
**4** Uncoil the conductivity cables and once laid in place, secure using the self-adhesive cable clips provided. For best results adhere clips at each end of the cable first. Clips are provided to secure cable approximately every 1.5 m (5'). Repeat operation for the second conductivity cable on channel two.



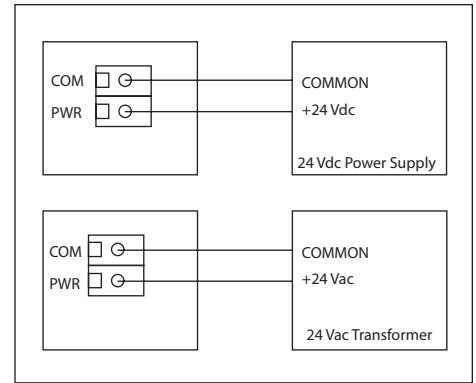
**5** The cable may be laid in a straight line or in a serpentine configuration. Be careful not to kink cable.



**6** Open the cover by pulling slightly on the latch on the enclosure and at the same time pulling up on the cover.

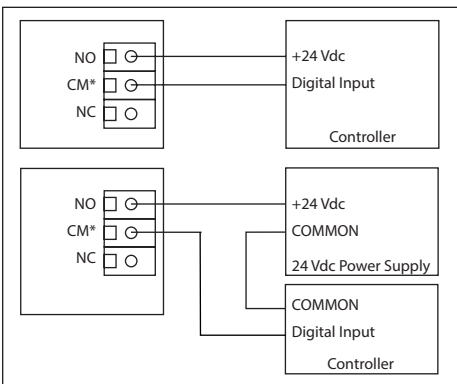


**7** Make all connections in accordance with national and local codes. Use 14-22 AWG shielded wire and do not locate the device wires in the same conduit with wiring used to supply inductive loads such as motors. The device is reverse voltage protected and will not operate if connected backwards.

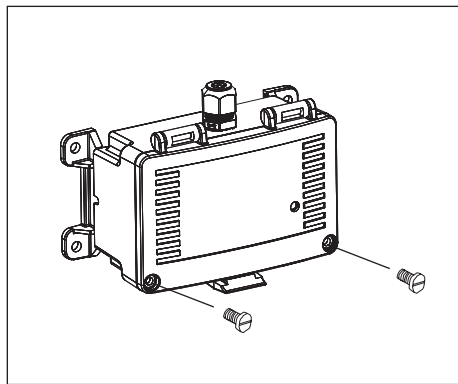


**8** To prevent electrical shock or equipment damage make all connections before applying power. Connect 24 Vac/Vdc to PWR & COM terminals.

**NOTE:** Use caution when wiring multiple devices or when grounding the secondary of a transformer to ensure that the circuit ground point is the same on all devices and the controller.



**9** Do not exceed the device contact ratings. The relays are Form C type with both a normally open (NO) and a normally closed (NC) contact. Relay terminals are designated NO, CM\* and NC.



**10** Use the provided security screws to secure the cover.

**NOTE:** Each relay output is independent and isolated from the other and the relays COMs are not connected to the device COM.

**OPERATION**

When the sensor is powered on the controller will monitor the liquid detection channels. If a conductive liquid comes in contact with conductive cable the controller will trigger the relays to indicate liquid is present.

The relays are fail-safe, meaning when power is applied to device the relay is powered. If power is lost to device the relay will deenergize signaling a fault to the system.

**Channel 1:** Relay activates on water detection or trouble.

**Channel 2:** Relay activates on water detection or trouble.

**LED:** Green = No water detected.

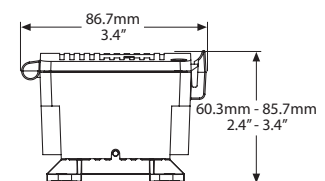
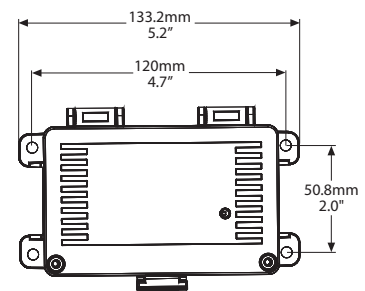
Yellow Solid = Channel 1 Water Detection

Yellow Flash = Channel 1 Trouble

Red Solid = Channel 2 Water Detection

Red Flash = Channel 2 Trouble

**DIMENSIONS**



| SPECIFICATIONS        |  |
|-----------------------|--|
| POWER SUPPLY          | 12 - 27 Vac/dc   |
| SUPPLY CURRENT        | 125 mA max @ 24 Vac  |
| ALARM OUTPUT          | 2 Form C relay(s), NO/NC, rated 2 Amps @ 30 VAC/VDC, 0.5 Amps @ 120 VAC (resistive load) |
| VISUAL INDICATION     | Tri-color LED - Green, Yellow, Red   |
| OPERATING TEMPERATURE | 0 to 50°C (32 to 122°F)  |
| ENCLOSURE             | ABS with hinged and gasket cover, IP65   |
| DIMENSIONS            | 133.2mm L x 86.7mm W x 60.3-85.7mm H (5.2" x 3.4" x 2.4" - 3.4")                         |
| OPTIONAL LEADER CABLE | FT-6 Plenum rated  |
| APPROVALS             | CE, RoHS   |
| COUNTRY OF ORIGIN     | Canada   |