



A CSW Industrials Company

PRODUCT DATA SHEET

SAFE-T-SWITCH® SSW

Multipurpose water sensor for floor or secondary drain pans

Description

With no moving parts to break or become clogged, the SSW water sensor is placed directly into a metal or plastic secondary drain pan or on a floor. The logic circuit of the SSW continuously samples the sensor probes for the accumulation of water and determines if the presence of water is transient or permanent. When proprietary sensors detect as little as a 1/16-inch level of permanent water, the SSW water sensor automatically shuts the HVAC system down. A red LED on the top cover of the unit indicates that the SSW has been activated. After the water has cleared, the SSW water sensor will automatically reset.



Features

- Sensor connects to indoor unit
- Onboard LED Indicator
- Power supply – 24VAC
- Switching Capacity: 24 VAC/DC, 5A, Normally Closed (NC); 24VAC/DC, 1A, Normally Open (NO)

Packaging

Code	Size	Qty. per Case	Lbs. per Case	Cubic Ft per Case
97092	Safe-T-Switch SSW	24	17	.55

IMPORTANT SAFETY INFORMATION:

- CAUTION** Failure to read and comply with all warnings, cautions and instructions prior to starting installation may cause personal injury and/or property damage and void warranty.
- CAUTION** The SSW must be installed in accordance with manufacturer’s instructions. The SSW must be installed in accordance with all applicable local plumbing, drainage and electrical codes.
- CAUTION** In some situations the sensor may cause the unit to rapidly cycle on and off as water level rises slowly in pan. After a brief period the HVAC unit will turn off completely. Condensation drain must be serviced if this occurs.
- CAUTION** In any installation where property damage and/or personal injury might result from an inoperative sensor due to power outages, a back-up system(s) and/or alarm should be installed.

**WARNING** Remove electrical shock hazard – disconnect the power to the HVAC unit before installing the Safe-T-Switch SSW to avoid electrical shock and/or equipment damage. Do not use on circuits exceeding 24 VAC to avoid damage to sensor, shock or fire hazard.

**NOTICE:** The SSW must only be installed by a licensed contractor. Condensate pan must be properly maintained after installation and be kept free of foreign matter, rust or other obstructions that might interfere with the proper operation of the SSW.

**NOTICE:** Cleaning solutions or dirty probes may not allow the HVAC unit to come on. If such, remove SSW and wipe clean.

## WIRING THE SSW

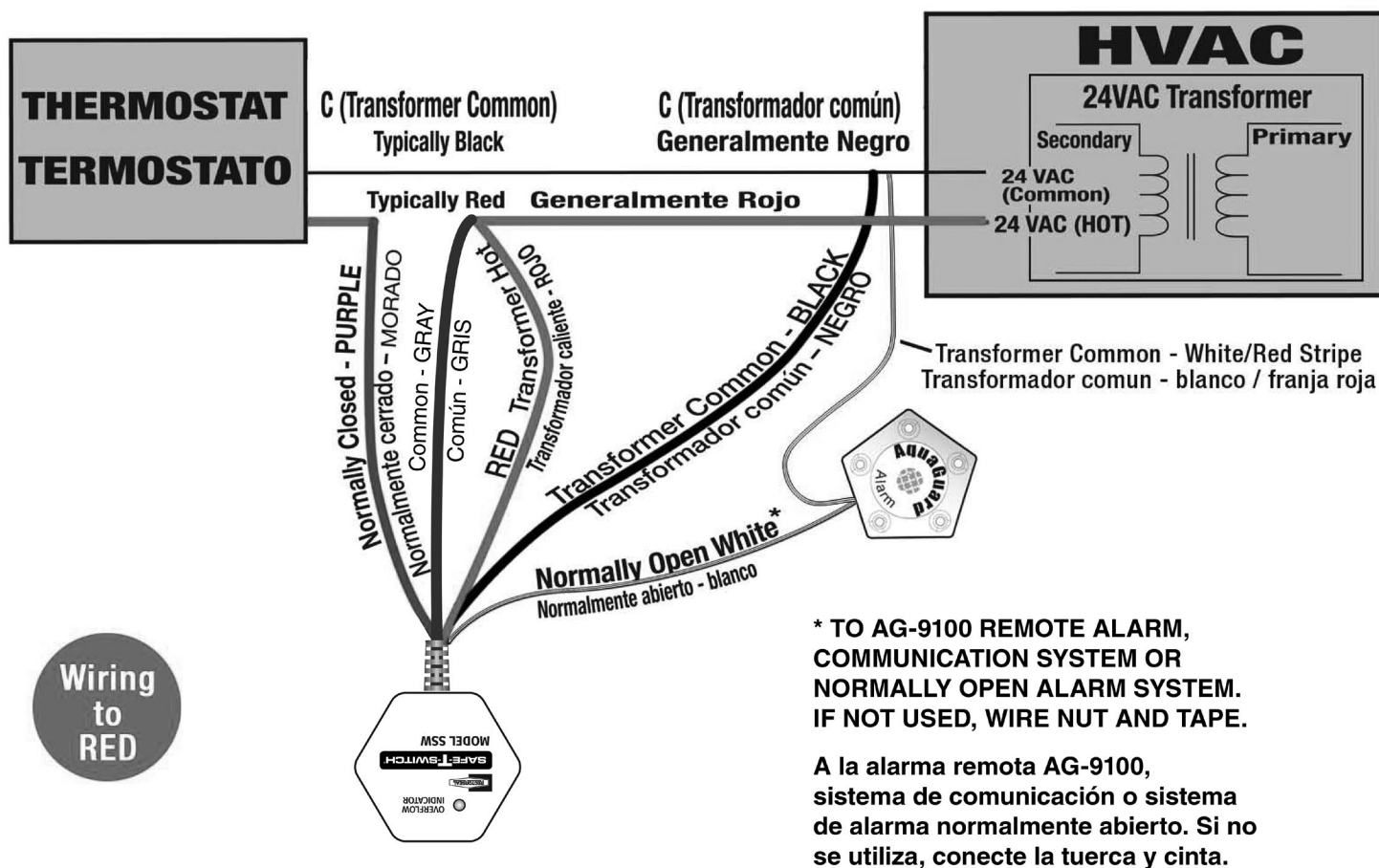
### Wiring instructions for breaking wall thermostat power wire:

- In HVAC unit, locate HVAC power wire going to **wall thermostat (typically RED)**.  
Break/Disconnect 24VAC power going to **wall thermostat**.
  - Cut 24VAC hot wire (typically red) between the thermostat and the 24VAC transformer.
  - Connect **RED** and **Common-GRAY** wires of SSW to the wire going towards the transformer.
  - Connect **Normally Closed - PURPLE** wire of SSW to the wire going towards the thermostat
  - Connect **BLACK** wire of SSW, Input: 24VAC (Common) wire of SSW to 24VAC (Common) secondary side of 24VAC transformer or thermostat **C** terminal.
  - Optional: Connect **Normally Open - WHITE** wire of SSW to the **WHITE** wire of Aquaguard AG-9100 external alarm or home alarm system or communicating system, etc.

*NOTE: Normally Open - WHITE wire maximum capacity, 24VAC/1Amp.*

- Test the SSW secondary pan sensor while HVAC unit is on and functioning correctly.  
*NOTE: When SSW is wired correctly, the HVAC unit will shut off upon condensate detection.*

### WIRING DIAGRAM FOR BREAKING WALL THERMOSTAT POWER WIRE



# SAFE-T-SWITCH® SSW

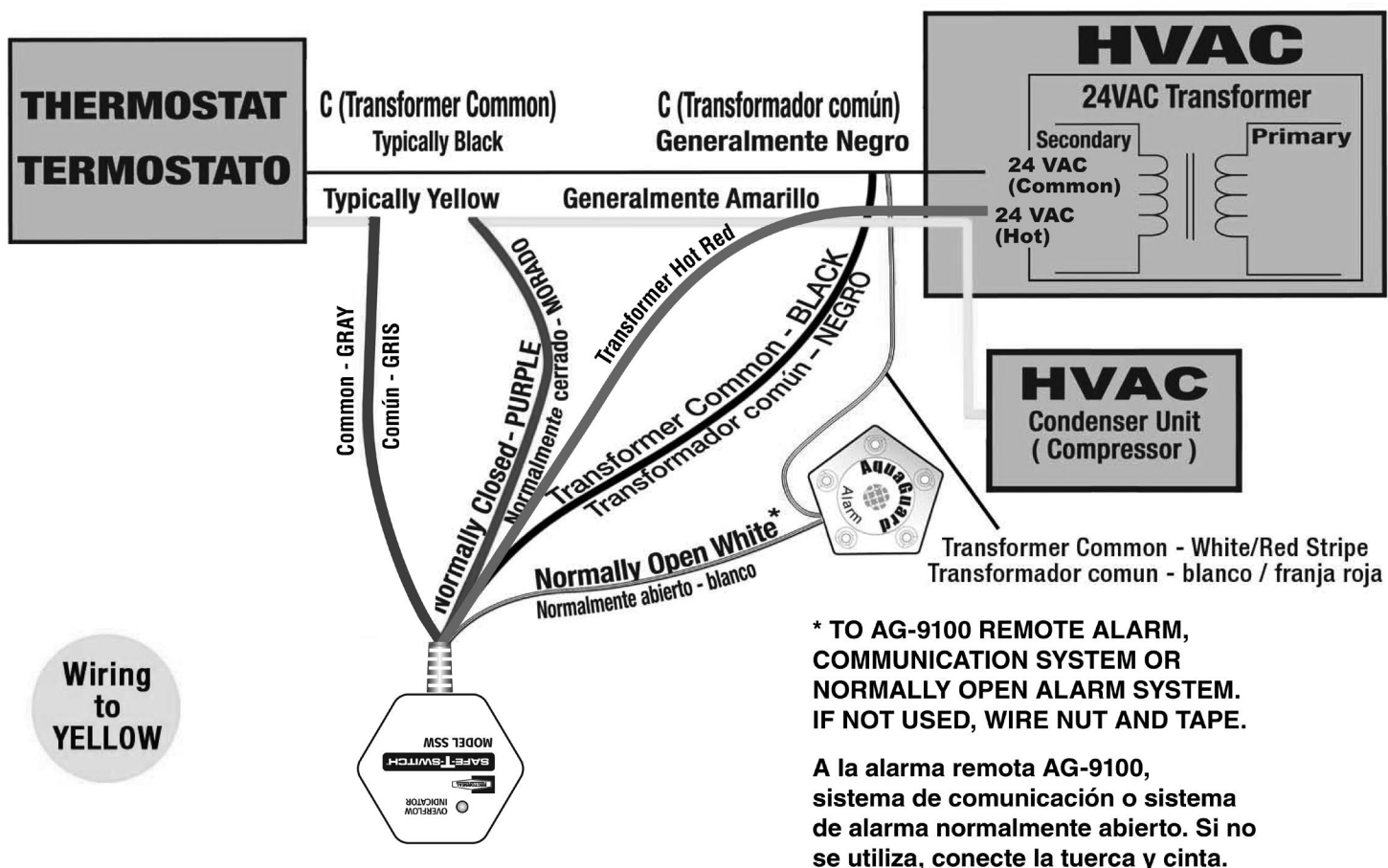
Multipurpose water sensor for floor or secondary drain pans

## Optional wiring instruction for breaking compressor wire:

1. In HVAC unit locate compressor wire going to **wall thermostat (typically YELLOW)**. Break/Disconnect compressor wire going to **wall thermostat**.
  - A. Cut compressor wire (typically **YELLOW**).
  - B. Connect **Common-GRAY** wire of SSW to the **YELLOW** wire going towards thermostat.
  - C. Connect **Normally Closed - PURPLE** wire of SSW to the **YELLOW** wire going towards compressor.
  - D. Connect **RED**, Input: 24VAC (Hot) wire of SSW to 24VAC (Hot) of 24VAC transformer of thermostat's **R** terminal.
  - E. Connect **BLACK**, Input: 24VAC (Common) wire of SSW to 24VAC (Common) secondary side of 24VAC transformer or thermostat **C** terminal.
  - F. Optional: Connect **Normally Open - WHITE** wire of SSW to the **WHITE** wire of Aquaguard AG-9100 external alarm or home alarm system or communicating system, etc.
2. Test the SSW secondary pan sensor while HVAC unit is on and functioning correctly.

*NOTE: When SSW is wired correctly, the HVAC unit will shut off upon condensate detection. Air Handler will continue to run.*

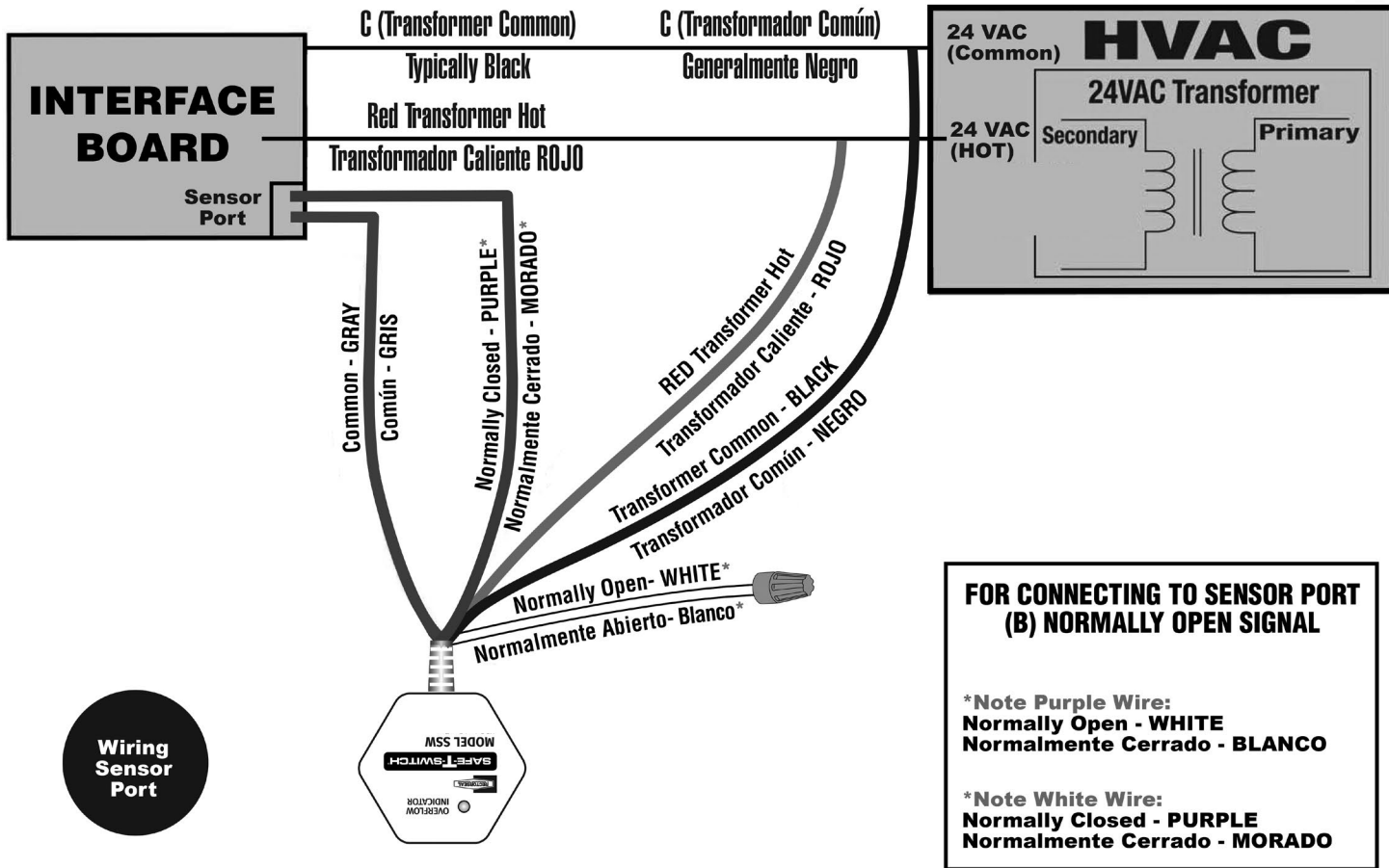
## OPTIONAL WIRING DIAGRAM FOR BREAKING COMPRESSOR WIRE



# SAFE-T-SWITCH® SSW

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## FOR CONNECTING SENSOR PORT (A) NORMALLY CLOSED SIGNAL



NOTE: For communicating HVAC systems, refer to equipment manufacturers recommendations for specific wiring instructions

### Installation of Sensor:

To ensure proper performance of product, instructions must be followed.

1. Test sensor: Place sensor in secondary pan and add enough water to the pan to cover contacts (approximately ¼ inch). LED will illuminate and HVAC unit will stop running if wired correctly.
2. Following successful test, SSW may be installed in secondary pan or on floor in desired location.

### Specifications:

Relay Normally Closed Contact 5 Amps @ 24VAC - Gray to Purple;

Relay Normally Open Contact 1 Amp @ 24VAC - Gray to White.

**CALUS** 24 Volt AC, 5 Amp, GP, Use in Class 2  
(Thermostat) Circuit Only

### Limited Warranty



For more information on our product limited warranty, visit [RectorSeal.com](http://RectorSeal.com)

Manufactured by

**RectorSeal, LLC**

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