

Spot Detector

F-30.5000.1

FENWAL®

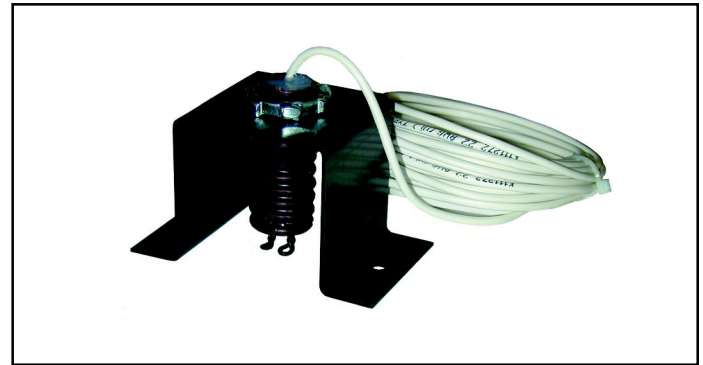
FEATURES

- Screw or Ram Set to Floor
- Electronic Design
- Simple Installation and Operation
- Low Voltage Input Power
- No Exposed Metal Sensing Posts
- Leader Cables Provided

DESCRIPTION

Spot detectors use polymer-coated sensing probes to detect any conductive fluid at a single point. Spot detectors are the most economical way to detect water, and are commonly used in small rooms, air conditioning drip pans and around drain floors. The height of the spot detector's sensing probes is easily adjusted by loosening the lock nut and turning the threaded body of the unit to the desired height.

The Model SDZ Spot Detectors interface with Fenwal's LDZ Series Zone Leak Detection panels. Multiple SDZs may be wired to a single-zone or may be intermixed with the leak sensing cable.



The Model SD-RO1 Spot Detectors interface with any system capable of accepting a digital (NO/NC) signal and generating an alarm. These spot detectors require a minimum 100 mA current and operate with either 12 to 36 Vac or 18 to 36 Vdc power. If AC voltage is used, the spot detector resets automatically when the conductive fluid under the sensing probes is no longer present. If DC voltage is used, the spot detector must be reset by removing and reapplying power when the conductive fluid is no longer present.

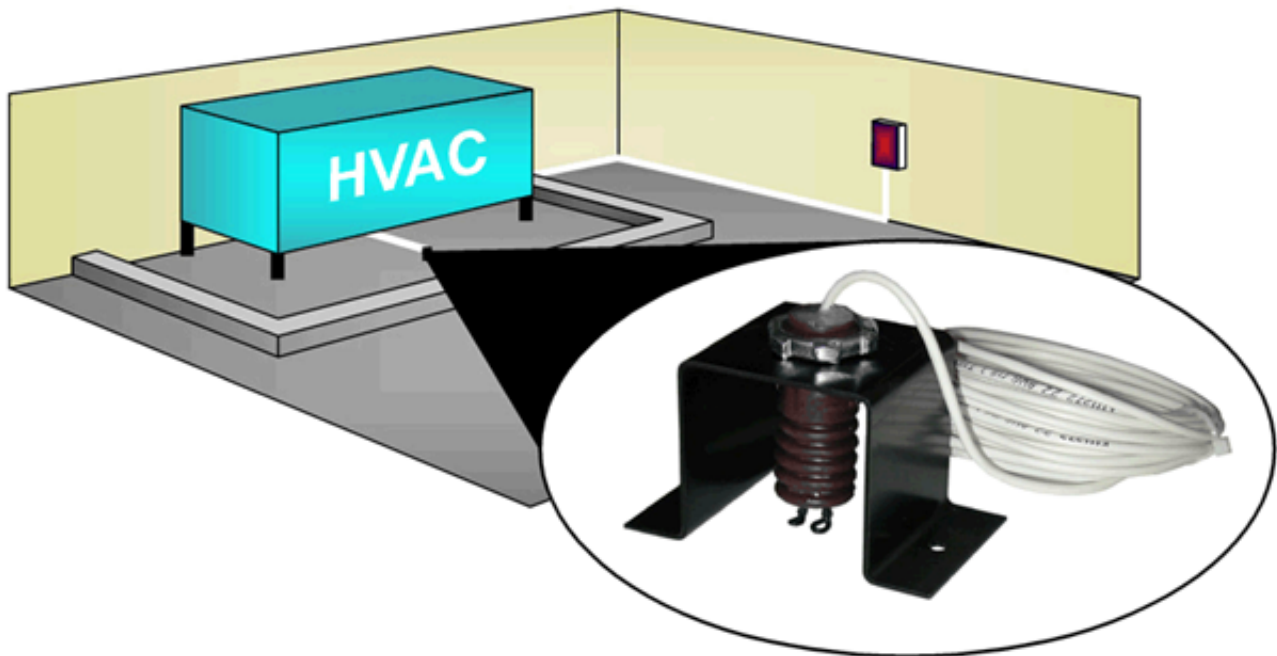


Figure 1. Typical Spot Detector Application

INSTALLATION

1. Determine location.
2. Ram Set 6/32 threaded studs in floor on 2.5" centers.
3. Place the spot detector over studs and secure.
4. Adjust the sense probes to desired height.
5. Connect the two leads to alarm device.
6. Test the spot detector by placing water under the sense probes.

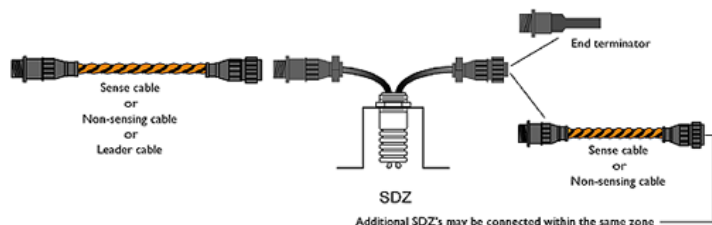


Figure 2. Wiring SDZ Spot Detectors

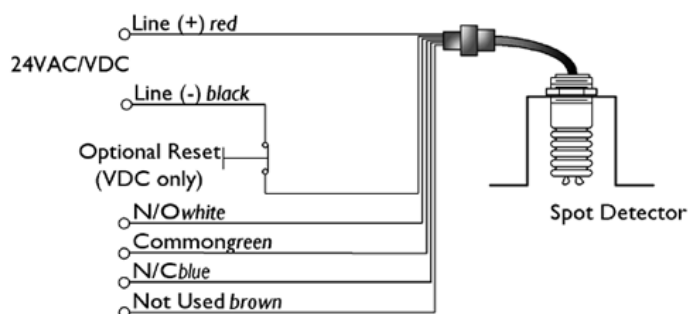


Figure 3. Wiring SD-RO1 Spot Detectors

SPECIFICATIONS

Model Numbers:	SD-RO1 and SD-Z
Detection:	Water and other conductive fluids
Interface compatibility:	SD-RO1: With system capable of accepting contact input SD-Z: With Zone Leak Detection Panels (LDZ1, 4 and 8)
Input Power:	SD-RO1: 100 mA max at 24 Vac/Vdc SD-Z: Nominal 15 Vdc from LDZ Panels
Output:	SD-RO1: 1 NO + 1 NC Form C Contacts rated 1 Amp at 24 Vdc/ 0.5 Amp at 120 Vac (resistive) SD-Z: Compatible with Zone Leak Detection panels
Material:	Base: Black metal base Probes: Polymer coated
Mounting Method:	Screw or ram set to floor
Operating Environment:	Operating Temperature: 32 to 122°F (0 to 50°C) Storage Temperature: -4 to 158°F (-20 to 70°C) Relative Humidity: 5 to 95% (non-condensing) Altitude: 10,000 feet (3,048 meters)

ORDERING INFORMATION

Part Number	Model Number	Description
30-500001-001	SD-RO1	Spot Leak Detector with Relay Output
30-500001-002	SD-Z	Spot Leak Detector for Zone Detection Systems

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FENWAL
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These instructions do not purport to cover all the details or variations in the equipment described, nor do they provide for every possible contingency to be met in connection with installation, operation and maintenance. All specifications subject to change without notice. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to KIDDE-FENWAL, INC., Ashland, MA 01721.