# Spot Detectors
## SD, SD-Z, SD-Z1, SD-RO1, SD-RO2
## Leak Detection for Conductive Fluids

## Applications

RLE's spot detectors detect the presence of conductive fluids at a single point and are ideal for:

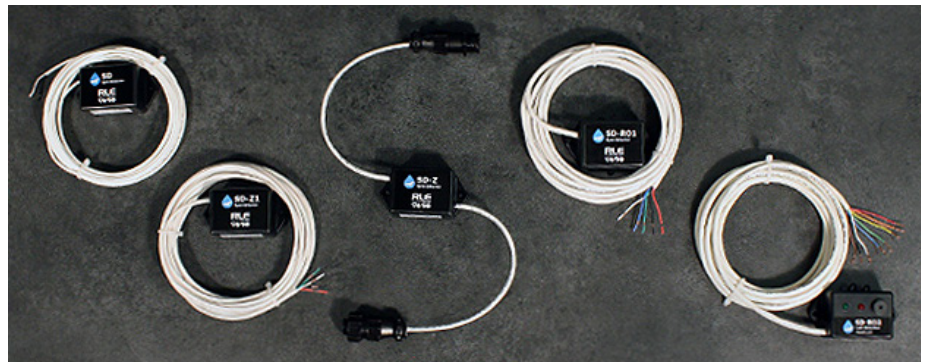- Drip pans
- Floor drains
- Contained spaces

## Key Features

- No exposed metal sensing posts
- Small footprint/enclosure
- Five different spot detector configurations available to suit individual installation and monitoring needs
- The SD-RO2 provides local alarm notification via LEDs and an audible alarm.

When used with a distance-read controller, the SD-Z simulates 50 feet (15.24m) of SeaHawk leak detection cable.

The SD-Z1 is for use with zone controllers only, and only one of these spot detectors should be used per zone.



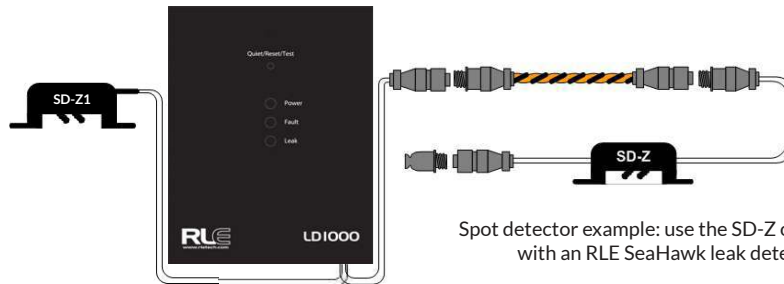## Leak Detection For Contained Environments

RLE offers four models of SeaHawk spot detectors that integrate with RLE's leak detection controllers and other alarm monitoring systems.

## What Sets RLE's Spot Detectors Apart?

- **Potted electronics** ensure nothing within the sensor will rust or corrode, and the unit will continue to function when submerged in water up to its top.

- **Simple installation.** Spot detectors connect quickly to a controller and can be screwed or ram set to a floor or baseboard.

- **We've developed a variety of spot detectors** to suit each facility's unique needs. Connect them directly to RLE controllers, use relay outputs to integrate with existing systems, or use the SD-RO2's LEDs and audible alarm for immediate local alarm notification.

- **Adjust the sensing probes** or add spacers under the spot detector's mounting holes to change the amount of fluid that must be present in order to trigger an alarm.

**SeaHawk**

# SD, SD-Z, SD-Z1, SD-RO1, SD-RO2 Spot Detectors · Compatible with a wide range of RLE products.

| Product Codes | Compatibility | Leader Cable Length | Power |
|---|---|---|---|
| SD | FMS, RA1x2 | 14 feet (4.27m) | N/A (powered by panel) |
| SD-Z | Any SeaHawk controller, WiNG-LD | Two, 10 inch (0.25m) w/male & female connectors | N/A (powered by panel) |
| SD-Z1 | Any zone leak detection controller, WiNG-LD | 14 feet (4.27m) | N/A (powered by panel) |
| SD-RO1 | Any product that accepts a digital dry contact input | 14 feet (4.27m) | Isolated 24VAC/VDC supply |
| SD-RO2 | Any product that accepts a digital dry contact input | 14 feet (4.27m) | Isolated 24VAC/VDC supply |



Spot detector example: use the SD-Z or SD-Z1 in conjunction with an RLE SeaHawk leak detection controller.

## Technical Specifications

| | |
|---|---|
| Power | **SD-RO1 and SD-RO2 require an isolated power supply, as does the SD if it is powered by a power supply and not an FMS or RA1x2.** |
| SD | The SD is usually powered by the RLE FMS or RA1x2. In the event that it is not used in conjunction with one of these products: 24VDC (±10%) Isolated @ 0.1A max.; requires RLE power supply PSWA-DC-24-ST (not included)  *NOTE: If a DC power supply is used the SD will be a latching device - once an alarm is detected, the spot detector will remain in an alarm state until power is cycled to the SD.* 24VAC (±10%) Isolated @ 0.1A max.; requires RLE power supply WA-AC-24-ST (not included) |
| SD-Z, SD-Z1 | N/A (powered by controller) |
| SD-RO1, SD-RO2 | 24VDC (±10%) Isolated; SD-RO1 @ 0.1A max.; SD-RO2 @0.15A max.; requires RLE power supply PSWA-DC-24-ST (not included)  *NOTE: If a DC power supply is used the SD-RO1 and SD-RO2 will be latching devices - once an alarm is detected, the spot detector will remain in an alarm state until power is cycled to the SD-RO1 or SD-RO2* 24VAC (±10%) Isolated; SD-RO1 @ 0.1A max.; SD-RO2 @ 0.15A max.; requires RLE power supply WA-AC-24-ST (not included) |
| Solid State Output | Only on SD; 12-36VAC @ 0.01A min., 0.1A max.; 18-36VDC @ 0.01A min., 0.1A max. |
| Relay Output | Only on SD-RO1, SD-RO2; Dry Contact, Form C; 1A @ 24VDC, 0.5A resistive @ 120VAC; SD-RO1 has one relay output; SD-RO2 has two relay outputs |
| Alarm Notification   Audible Alarm   Visible Alarm | Only on SD-RO2  85dbA  Power LED: Power Applied - Green; Alarm LED: Leak Detected - Red |
| Sensor Probe Height | Distance from the sensor probe to floor is adjustable, from 0" to 0.19" (0mm - 4.8mm)  Spacers can be added under the spot detector if additional height is required. |
| Leader Cable (Non-sensing)   Length     SD, SD-Z1, SD-RO1, SD-RO2     SD-Z   Connector     SD, SD-Z1, SD-RO1, SD-RO2     SD-Z | 14' (4.27m)  Two, 10" (0.25m); male & female connector  N/A - spot detector leader cable wires directly into controller  1 male, 1 female; 4 pin, 0.96in (24.4mm) diameter; connects to SeaHawk sensing cable (SC) cable or non-sensing cable (NSC) |
| Operating Environment   Temperature   Humidity   Altitude | 32° to 122°F (0° to 50°C)  5% to 95% RH, non-condensing  15,000ft (4,572m) max. |
| Storage Environment | -4° to 158°F (-20° to 70°C) |
| Dimensions   SD, SD-Z, SD-Z1, SD-RO1   SD-RO2 | 1.55"W x 2.0"H x 1.0"D (39.4mmW x 50.8mmH x 25.4mmD)  1.55"W x 2.0"H x 1.1"D (39.4mmW x 50.8mmH x 27.9mmD) |
| Weight | SD: 4 oz. (105g); SD-Z: 3 oz. (93g); SD-Z1: 5 oz. (136g); SD-RO1: 7 oz. (192g); SD-RO2: 8 oz. (219g) |
| Certifications | CE; ETL listed: conforms to UL 61010-1, EN 61010-1; RoHS compliant |