

Leak Detection

LEAK DETECTION FOR CONDUCTIVE FLUIDS

01

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

02

KEY FEATURES:

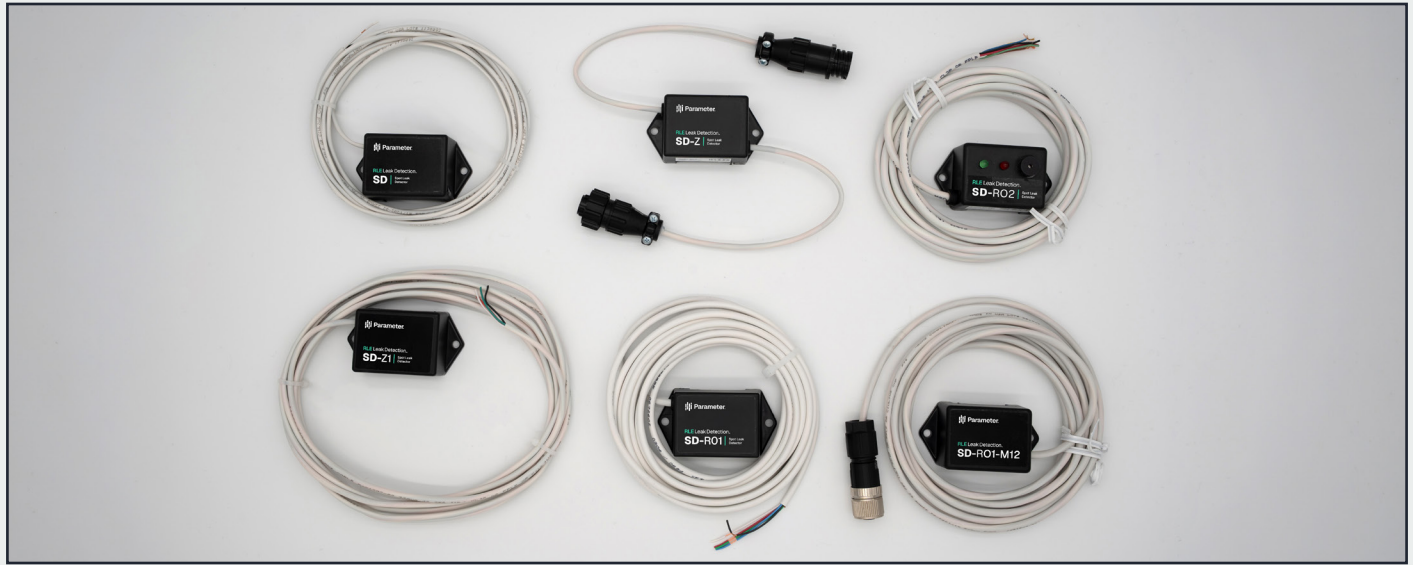
- No exposed metal sensing posts
 - Small footprint/enclosure
 - Five different spot detector configurations available to suit individual installation and monitoring needs
 - The SD-RO2 provides local alarm notification via LEDs and an audible alarm.
- When used with a distance-read controller, the SD-Z 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.
- The SD-RO1 has one relay output. The SD-RO1-M12 adds an M12 connector.

03

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.

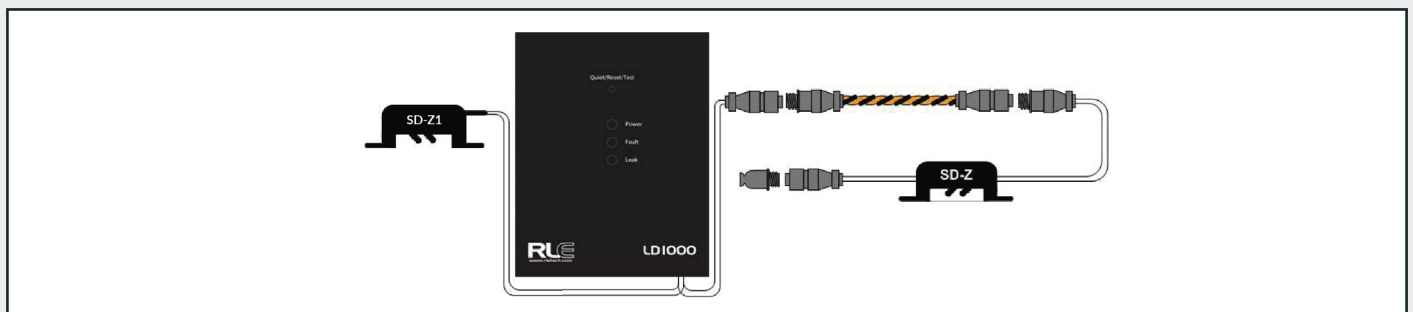
04 LEAK DETECTION FOR CONTAINED ENVIRONMENTS: RLE offers four models of SeaHawk spot detectors that integrate with RLE's leak detection controllers and other alarm monitoring systems.



05 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-RO1-M12	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.



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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 ($\pm 10\%$) 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 ($\pm 10\%$) 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 ($\pm 10\%$) 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 ($\pm 10\%$) 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-RO1-M12, SD-RO2 SD-Z Connector SD, SD-Z1, SD-RO1, SD-RO2 SD-Z SD-RO1-M12	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) M12 A code, 4-position female connector
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