General Installation for all Spot Detectors

Determine a location. Ram set 6/32 threaded studs in floor on 2.5 inch (63.5mm) centers. Place SD over studs and secure. Adjust the sense probes to desired height.

SD – Spot Detector

Installation

Connect the white/red and black leads to the FMS, F-Series RA1x2 or LDRA6 panel. Test the SD by placing water under the sense probes. *Note: Powered by RLE products only.*
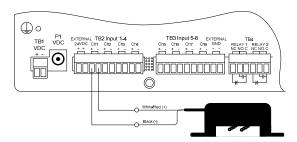

Figure 1: SD and Falcon Wiring

SD-Z – Zone Spot Detector

Installation

Connect the SD-Z to the LD control panel by connecting the two cable connectors to SeaHawk Water Leak Detection Cable (SC), or SeaHawk Non-Sensing Cable (NSC), or an end-of-line terminator (EOL). Test the SD-Z by placing water under the sense probes. SD-Z simulates 50 feet (15.24m) of SC cable: 25 feet in and 25 feet out (7.62m in/out) from device.

SD-Z1– Zone Spot Detector

Installation

Connect the SD-Z1 to the LD control panel by connecting the four conductor cable to the cable interface terminal block. Test the SD-Z1 by placing water under the sense probes. SD-Z1 simulates 50 feet (15.24m) of SC cable: 25 feet in and 25 feet out (7.62m in/out) from device.
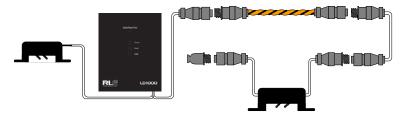

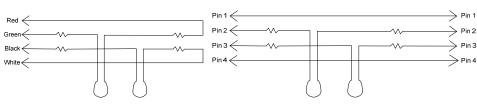**Figure 2: Basic Installation Components for SD-Z and SD-Z1**
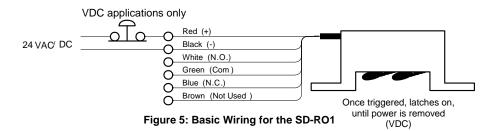

Figure 3: SD-Z1 Internal Circuit   **Figure 4: SD-Z Internal Circuit**

SD-RO1 – Spot Detector with Relay Output

Installation

Connect the white (N/O) and green (Com) or blue (N/C) leads to the alarm device. Connect the black (-) and red (+) leads to the power source. Test the SD-RO1 by placing water under the sense probes.

Figure 5: Basic Wiring for the SD-RO1

(*Note: The SD-R01 Latches if powered by DC voltage and a reset switch must be installed on the positive or negative wire. The SD-R01 will automatically reset with AC voltage applied.*)

Specifications

Power	
SD, SD-Z, SD-Z1	N/A
SD-RO1	24VAC/VDC ± 10%, 0.1A max.; requires power supply: WA-DC-24 or WA-DC-24-ST (not included)
Outputs	
Solid State	
SD	12-36VAC @ 0.01A min., 0.1A max.; 18-36VDC @ 0.01A min., 0.1A max.
SD-Z, SD-Z1, SD-RO1	N/A
Relay	
SD, SDZ, SD-Z1	N/A
SD-RO1	Dry Contact, Form C; 1A @ 24VDC, 0.5A resistive @ 120VAC
Leader Cable (Non-sensing)	
Length	
SD, SD-RO1, SD-Z1	14 feet (4.27m)
SD-Z	10 inches (0.25m); male & female connector
Connector	
SD, SD-RO1, SD-Z1	N/A
SD-Z	1 male, 1 female; 4 pin, 0.96in (24.38mm) diameter; connects to SeaHawk SC cable or NSC cable
Operating Environment	
Temperature	32° to 122°F (0° to 50°C)
Humidity	5% to 95% RH, non-condensing
Altitude	15,000ft (4,572m) max.
Storage Environment	-4° to 158°F (-20° to 70°C)
Dimensions	1.55"W x 2.0"H x 1.0"D (39.37mmW x 50.8mmH x 25.4mmD)
Weight	
SD, SD-Z1	4 oz. (113g)
SDZ	3 oz. (85g)
SD-RO1	7 oz. (198g)
Certifications	CE; ETL listed: conforms to UL STD 61010-1, EN STD 61010-1; RoHS compliant

SeaH●wk

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