

**Conventional Detectors and Bases**

BASE SPECIFICATIONS				
MODEL	Base ID	Compatible Detector ID	Alarm Current	Mounting Box
NS4-100, NS4-100W	HB-55	HD-3 or HD-5	150mA <sup>limit externally</sup> @15.0 - 33.0V max	3" Octagonal
NS6-100, NS6-100W	HB-55	HD-3 or HD-5	150mA <sup>limit externally</sup> @15.0 - 33.0V max	4" Octagonal / 4" Square
NS4-220, NS4-220W	HB-3	HD-3 or HD-5	93mA (136mA @33.0V max)	3" Octagonal
NS6-220, NS6-220W	HB-3	HD-3 or HD-5	93mA (136mA @33.0V max)	4" Octagonal / 4" Square
NS4-221, NS4-221W	HB-4	HD-3 or HD-5	46mA (77mA @33.0V max)	3" Octagonal
NS6-221, NS6-221W	HB-4	HD-3 or HD-5	46mA (77mA @33.0V max)	4" Octagonal / 4" Square
NS4-224, NS4-224W	HB-5	HD-3 or HD-5	43mA (58mA @30.0V max)	3" Octagonal
NS6-224, NS6-224W	HB-5	HD-3 or HD-5	43mA (58mA @30.0V max)	4" Octagonal / 4" Square
HSC-220R, HSC-220RW <small>2 Wire Relay Base</small>	HB-72	HD-3 or HD-5	88mA (98mA @ 26.5V max)	4" Octagonal / 4" Square
HSC-221R, HSC-221RW <small>2 Wire Relay Base</small>	HB-71	HD-3 or HD-5	49mA (62mA @ 30.0V max)	4" Octagonal / 4" Square
HSC-224R, HSC-224RW <small>2 Wire Relay Base</small>	HB-73	HD-3 or HD-5	43mA (58mA @ 30.0V max)	4" Octagonal / 4" Square
HSC-4R <small>4 Wire 24V Base</small>	N/A	HD-3 or HD-5	43mA (58mA @ 30.0V max)	4" Octagonal / 4" Square
HSC-4R12 <small>4 Wire 12V Base</small>	N/A	HD-3 or HD-5	47mA (75mA @ 18.0V max)	4" Octagonal / 4" Square

**NOTES:**  
 Alarm current for 2-wire operation applies to the FACP Initiating Device Circuit and detector.  
 Alarm current for 4-wire operation applies to the Auxilliary Power Supply and detector.  
 NS4-100 and NS6-100 must be current limited by the FACP  
 Standard base is ivory color, W suffix indicates white color

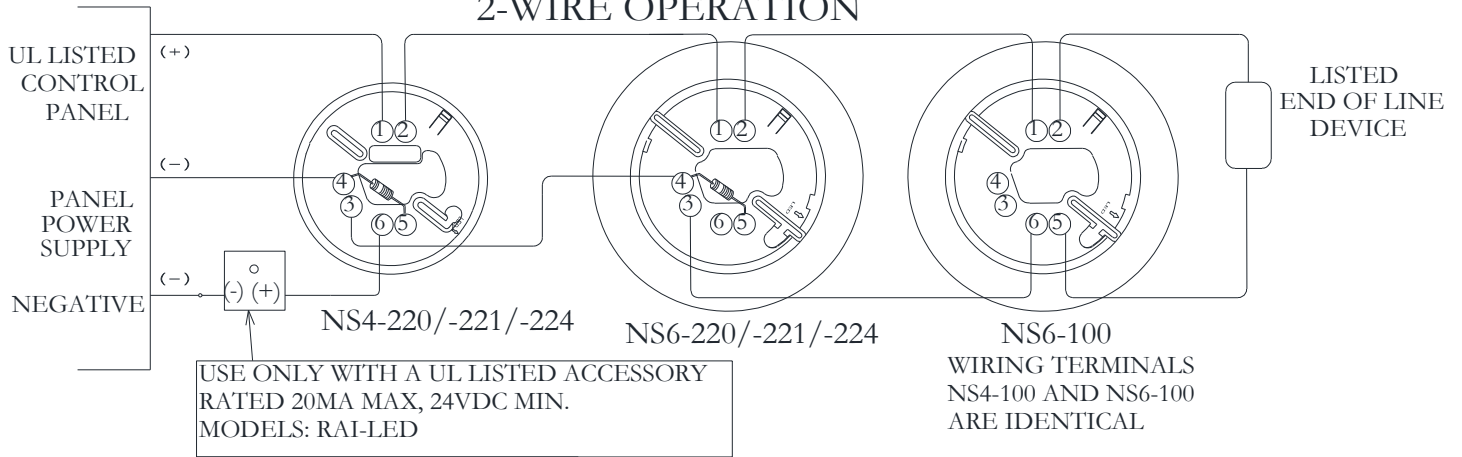
Refer to the Technical Bulletin HA-06-434 issued 07/21 (accessible at [www.Hochiki.com](http://www.Hochiki.com)) for the following UL listed compatible detectors. Connect these detectors only to a listed-compatible control panel. Refer to the control panel installation manual for additional instructions. Smoke detectors are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose:

- SOC-24V/SOC-24VN/SOC-24VW Smoke Detector (Compatibility ID HD3)
- SOE-24V/SOE-24V (WHT) Multi-criteria Smoke Detector (Compatibility ID HD3)
- SOE-24H/SOE-24H (WHT) Multi-criteria Smoke and Heat Detector (Compatibility ID HD3)
- DCD-135/DCD-135W Fixed Temperature and Rate of Rise Detector (Compatibility ID HD3)
- DCD-190/DCD-190W Fixed Temperature and Rate of Rise Detector (Compatibility ID HD3)
- DSC-EA/DSC-EAW Rate of Rise Dry Contact Heat Detector
- DFE-135/DFE-135W/DFE-135C Fixed Temperature Dry Contact Heat Detector
- DFE-190/DFE-190W/DFE-190C Fixed Temperature Dry Contact Heat Detector

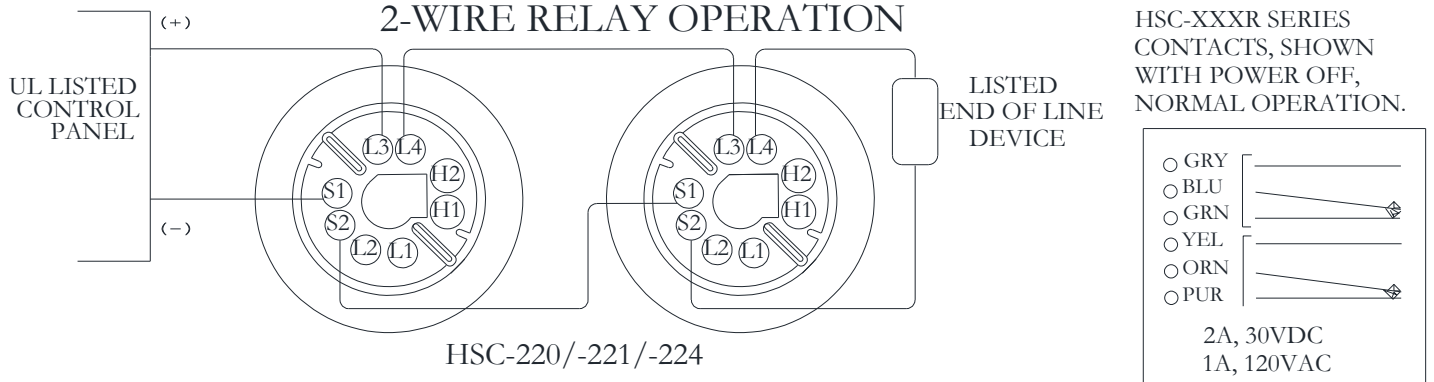
Detectors must be installed and maintained in accordance with applicable NFPA standards, local codes and any authority having jurisdiction. Refer to NFPA 72 "National Fire Alarm and Signaling Code" for installation guidelines and testing procedures. Smoke detectors should be tested in accordance with NFPA 72, section on "Inspection, Testing and Maintenance".

Seal conduit openings in the electrical box with 3M Weatherban #606 nonflammable sealing compound (or equivalent) to reduce the stack effect. Attach the detector to the base by turning the detector clockwise until it stops.

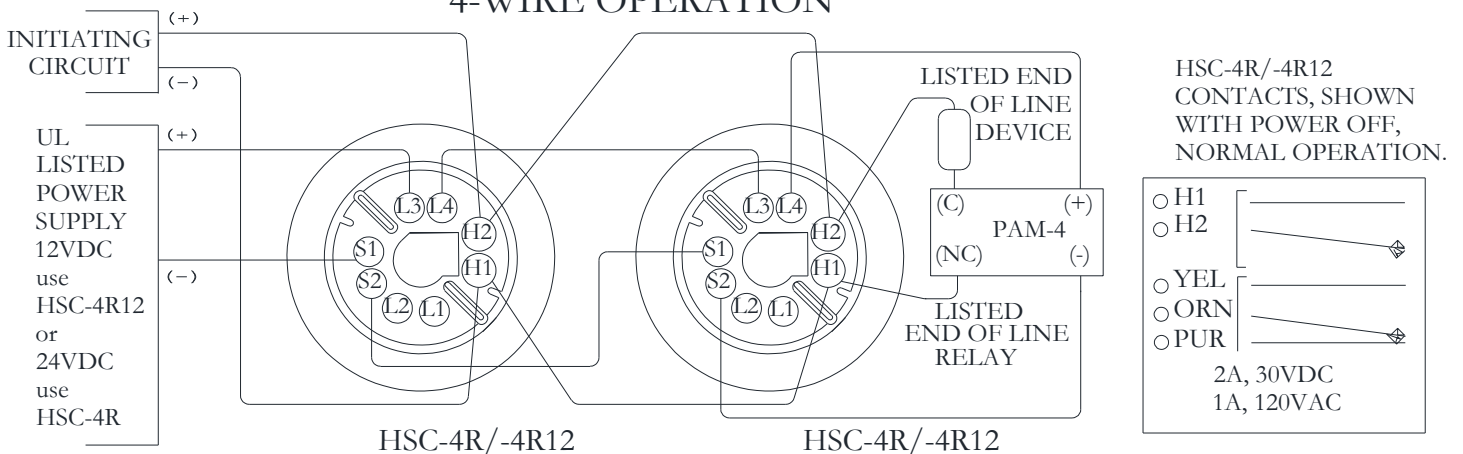
### 2-WIRE OPERATION



### 2-WIRE RELAY OPERATION



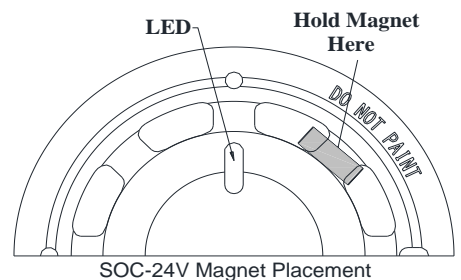
### 4-WIRE OPERATION



Go/No-Go testing can be used to confirm a detector is within its sensitivity limits and operating normally

#### GO/NO-GO TESTING SOC-24V/-24VW

1. Hold a magnet (2lb pull force min) on the detector as shown.
2. For go: The detector should alarm and latch red within 10 seconds. When using Alarm Verification, may take up to 30 seconds. For no-go: The detector will blink red every 3 seconds and never alarm or latch red.
3. Upon reset, the smoke detector LED should blink Green every 3 seconds. If the detector blinks red, it should be replaced.



#### GO/NO-GO TESTING SOE-24V/-24V (WHT)/-24H/-24H (WHT)

1. Place the Hochiki America Test Magnet to align the LED marking as shown.
2. For go: The detector will blink red every second. Holding the magnet in position for at least 13 seconds will cause the detector to alarm with the red LED latched on. For no-go: After at least 13 seconds, the detector will continue to blink red every 3 seconds and never alarm or latch red.
3. Upon reset, the smoke detector LED should blink Green every 3 seconds. If the detector blinks red, it should be replaced.

