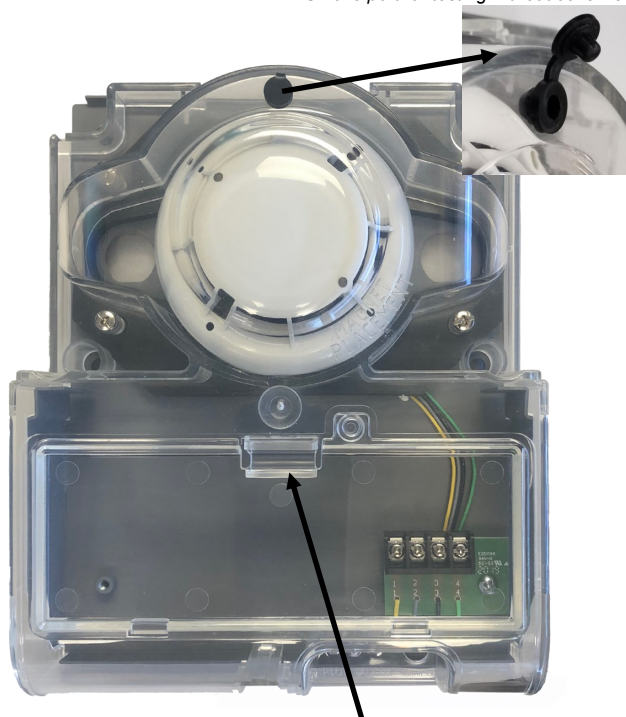


DH-100-A - ANALOG DUCT DETECTOR

Smoke port for testing without cover removal



Wiring Access hatch for wiring maintenance without cover removal

SPECIFICATIONS

Duct Detector Model #	DH-100-A
Detector Head Model	ALN-DH
Detector Head Type	Analog Photoelectric
Communication	DCP Powered Loop
Standby Current	450mA
Alarm Current	30mA (max)
Sensitivity Test Method	Smoke Port
Air Velocity	100 to 4000 ft/min.
Ambient Temperature	32°F to 100°F (0°C to 38°C)
Humidity	10% to 93% Relative Humidity (non-condensing)
Housing Material	18 G.A. steel backbox, clear plastic cover
Finish	Grey Powder Coat Enamel
Dimensions	9 1/8" L x 7 1/4" W x 2 1/4" H
Maximum Net Weight	3lbs.
Sampling Tubes	2.5ft. Model: STS-2.5 P/N: 0400-01580 5ft. Model: STS-5.0 P/N: 0400-01590 10ft. Model: STS-10.0 P/N: 0400-01570

Specifications subject to change without notice.

STANDARD FEATURES

- Air Low Flow 100FPM Listed
- Detects and limits the spread of smoke throughout building HVAC ducts
- Compatible with building automation and fire alarm systems
- Installs quickly and easily
- No screens or filters to clean
- Rugged gray steel back box with clear cover
- Accessories - Remote LED alarm indication capability
- UL 268A Listed

APPLICATION

The HOCHIKI AMERICA DH-100-A Analog duct smoke detector provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial and Residential applications. The DH-100-A is designed to prevent the recirculation of smoke in areas by the air handling systems, fans and blowers. Complete systems may be shut down in the event of smoke detection. The HOCHIKI AMERICA DH-100-A operate on a DCP powered loop.

PRODUCT DESCRIPTION

The DH-100-A is designed and built to meet all local requirements, as well as the NFPA regulations regarding duct smoke detectors. The DH-100-A is provided with output terminals for remote status indicators. Air sampling is accomplished by two tubes which protrude into the duct. An exhaust tube of on standard length (7.5") is supplied in the installation kit with the smoke duct unit. Once the duct width has been determined the air intake sampling tubes must be ordered. Sampling tubes are supplied in three standard lengths 2.5ft., 5 ft. and 10ft. and cut to size to fit the duct.

PRODUCT LISTINGS



California State
Fire Marshal
3240-0410:0155

DH-100-A - ANALOG DUCT DETECTOR

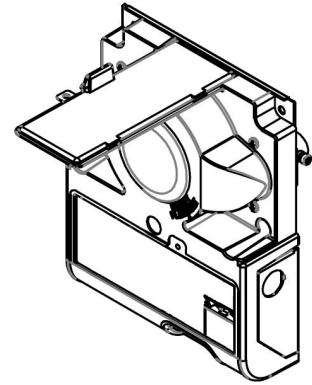
ELECTRICAL INSTALLATION

A. GENERAL INFORMATION

Wiring must conform to applicable local codes, ordinances and regulations covering these types of devices. Wire the detectors according to the engineering drawings for the particular job requirements. These detectors are not intended for open area protection, nor should they be used for open air protection. Refer to NFPA 90A and NFPA 72 for general and additional information on Duct Smoke Detectors concerning operation and installation. Terminals are suitable for up to #14 gauge wire.

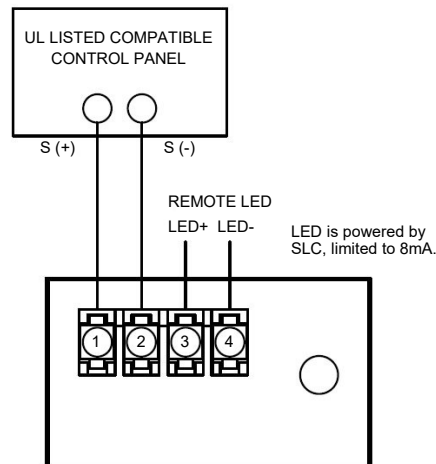
B. DETECTOR WIRING

With power source de-energized, wire all connections. The wiring access hatch cover can be stored at the top of the unit. Return cover before restoring power.



*DH-100-A Access Hatch
Cover Temporary Storage*

C. TERMINAL BOARD WIRING



SPECIFICATIONS

SLC Applied Voltage	Rated Range 25.3 - 39.5 VDC
SLC Current Consumption	Alarm 30mA Max
(includes detector)	Normal Standby 450uA *Add 6.75mA per SLC loop for panel battery backup calculations.
Operating Temperature Range	0°C (32°F) ~ 38°C (100°F)
Storage Temperature Range	-30°C (22°F) ~ 70°C (158°F)
Maximum Relative Humidity	93% RH non-condensing
Air Velocity	100 - 4,000 FPM
Sensitivity	0.70 - 3.74% / FT @ 100 FPM 0.70 - 3.38% / FT @ 300 FPM 0.70 - 3.39% / FT @ 1000 FPM 0.70 - 3.83% / FT @ 2000 FPM 0.70 - 4.00% / FT @ 3000 FPM 0.70 - 4.00% / FT @ 4000 FPM
Environment	Indoor dry use only, Duct Side or Top
Dimensions	7.5"W X 9.5"H X 2.5"D
Weight	Approximately 3.0lb