

DHX-502

Intelligent Duct Detector Housing

Section: Intelligent/Addressable Devices

GENERAL

The DHX-502 Series Duct Housing is designed to sample air currents passing through a duct and allows the early detection of developing fire. The DHX-502 Duct Housing will accommodate either the CPX-551 Intelligent Ionization Sensor or the SDX-551 Intelligent Photoelectric Sensor, either of which provides continuous analog monitoring of the unit's sensitivity. When sufficient smoke is sensed, an alarm signal is initiated at the AM2020 control panel, AFP1010 control panel, AFP-200 control panel or AIM-200 module (supports the SDX-551 detector head only) monitoring the detector, and appropriate action can be taken to shut off fans and blowers, change over air handling systems, etc. This can prevent the rapid distribution or isolation of toxic smoke and fire gases throughout the areas served by the duct system.

The DHX-502 duct detector system features the superior capabilities of an intelligent sensor in a unit that is easy to install and maintain, making this duct detector the new industry standard.

FEATURES

- Accommodates intelligent ionization or photoelectric heads.
- Continuous sensitivity monitoring and alarm verification from the panel.
- Simple change-out of detector heads: twist-in, twist-out.
- Easy and quick mounting to round or rectangular ducts.
- Outputs for remote test station (separate 24 VDC is required).
- Air velocity rating from 500 to 4,000 feet per minute.
- UL 268A listed.
- Clear polycarbonate cover for convenient visual inspection of sampling tube filters.
- Rugged Noryl® housing (mounting portion).
- Three-year limited warranty.
- Optional remote LED (RA400Z).

CONSTRUCTION AND INSTALLATION

The twist-in, twist-out detector and base allow the removal of detectors easily and quickly for cleaning and maintenance. In addition, detector heads can be changed to fit the application without removing the duct housing. The DHX-502 comes with a built-in exhaust tube. Sampling tubes are available to fit ducts from 1 to 10 feet wide.



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ML154
(DHX-502A)

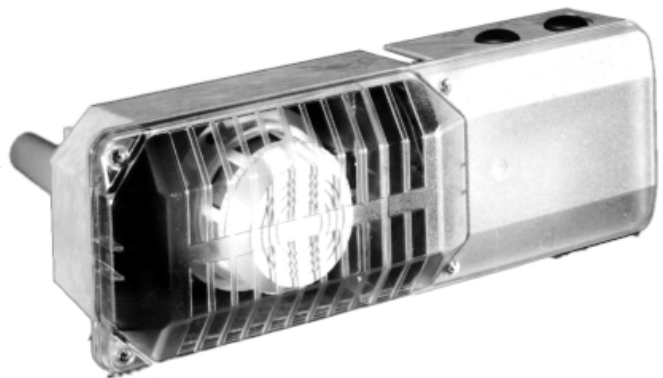
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California
State Fire
Marshal
3240-0028:158



The DHX-502 Intelligent Detector Duct Housing

SPECIFICATIONS

Dimensions: 14-1/2" (36.8 cm) wide, 5" (12.7 cm) high, 3-1/2" (8.9 cm) deep.

Weight: 2 lbs., 8 oz. (1.1 kg).

Operating temperature range: 0°C to 49°C (32°F to 120°F).

Operating humidity range: 10% - 93% relative humidity.

Air duct velocity: 500 to 4,000 feet per minute.

UL listed to 268A.

ELECTRICAL RATINGS

Voltage range: 14.5 to 28.0 VDC peak

Standby current (nominal): 150 µA at 24 VDC.

Power-up surge at max. rated voltage: 1.5 mA-sec.

LED current (nominal): 6 mA at 24 VDC.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact **NOTIFIER**. Phone: (203) 484-7161 FAX: (203) 484-7118



NOTIFIER

12 Clintonville Road, Northford, Connecticut 06472

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Engineering and Manufacturing
Quality System Certified to
International Standard ISO-9001

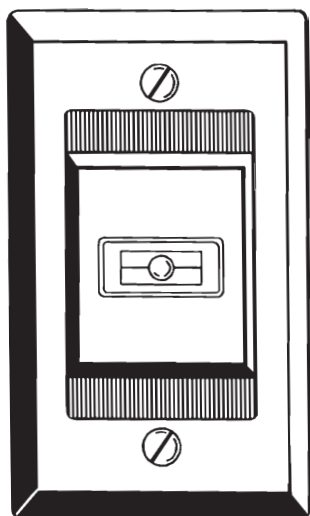


Made in the U.S.A.

INLET TUBE SELECTION

Outside Duct Width	Inlet Tube Required*
Up to 2 feet	ST-1.5
2 to 4 feet	ST-3
4 to 8 feet	ST-5
8 to 10 feet	ST-10

***NOTE:** Inlet tube is required and must be purchased separately. Order one inlet tube for each duct detector housing you order.



RA400Z
Remote Annunciator LED

PRODUCT LINE INFORMATION

Model	Description
DHX-502**	Intelligent Duct Housing. NOTE: Intelligent Duct Housing is priced without Inlet Tube or Sensor Head. Order one Inlet Tube and one Sensor Head for use with each Intelligent Duct Housing.
CPX-551**	Intelligent Ionization Sensor Head. NOTE: The CPX-551 is for use with the AM2020, AFP1010, and AFP200 only. This sensor head, when installed in a DHX-501, is not supported by the AIM-200.
SDX-551**	Intelligent Photoelectronic Sensor Head.
ST-1.5	Metal Sampling Tube, duct widths 1' - 2'.
ST-3	Metal Sampling Tube, duct widths 2' - 4'.
ST-5	Metal Sampling Tube, duct widths 4' - 8'.
ST-10	Metal Sampling Tube, duct widths 8' - 10'.
RA400Z	Remote LED.
F36-05-00	Replacement Filters.
M02-04	Test Magnet.
P48-21-00	End Cap for Sampling Tube.
A2650-00	Installation Kit (parts bag).
RS24	Photoelectronic Replacement Screen.
RS14	Ionization Replacement Screen.
MOD400R	Sensitivity Test Kit.
CRT400	Ionization Cover Removal Tool.
I56-473-00	Applications Manual, Duct Detectors.
RTS451	Remote Test Station.

****Order "A" suffix for Canadian (ULC) listed versions.**