

DESCRIPTION

The FCI Model DH-60 Series air duct detector housing is intended for use on air handling ducts to sample air flow in the duct and allow for the detection of smoke and combustion particles. The housing is available in a 4-wire detector configuration, and accepts either the CPD-7051D ionization detector or the PSD-7155D photoelectric detector.

Air sampling is accomplished via sampling and return tubes which extend into the ducts.

The DH-60 4-wire detector can operate over a wide range of AC or DC power sources; 24 VAC, 24 VDC, 120 VAC or 240 VAC. It is equipped with alarm relay auxiliary contacts which may be used directly for control applications, and has an integral, normally-energized trouble relay to supervise power and smoke detector head removal.

A transparent inspection port permits viewing of the detector alarm indicator over a wide viewing angle and inspection of the conditions of cleanliness inside the detector mounting area.

The housing can be installed on either rectangular or round ducts ranging from 8 inches to 12 feet in width. The sampling tube must extend over the entire width of the duct, and the unit is equipped with a 4.25 inch exhaust tube.

Optional accessories include remote test stations and annunciators.

CONSTRUCTION

The duct detector housing is of rugged plastic with a clear polycarbonate cover. The housing is capable of mounting on either rectangular or round ducts without adapter brackets. Terminals are suitable for 14-18 AWG wiring.

APPROVALS

UL (Std 268A)	S1064
CSFM	Approved
NYC MEA	MEA 134-95-E Vol. III

GENERAL SPECIFICATIONS

Operating temperature	32 to 100° F (0 to 37° C)
Humidity	10 to 93% RH
Air velocity range	300 to 4000 FPM
Dimensions	14.5 inches L x 5 inches W x 2.5 inches D (37 x 13 x 6.4 cm)
Weight	5.5 lbs. (3.2 kg)

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FEATURES

- **Accommodates Ionization or Photoelectric Detector Heads**
- **4-wire Configuration**
- **Field Selectable Single Station AC Operation: 24 VAC, 120 VAC or 240 VAC**
- **Air Velocity Ranging from 500 to 4000 FPM**
- **Mounts on Round or Rectangular Ducts from 8 inches to Twelve Feet Wide**
- **Clear Polycarbonate Cover for Visual Inspection**
- **Non-Polarized**
- **Remote Indication, Relay Test and Reset Options**
- **Two (2) Heavy Duty (10 Amp.) Relay Contacts**

GAMEWELL-FCI

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9020-0369 Rev. H

ELECTRICAL SPECIFICATIONS

Contact ratings

Alarm initiating contacts:	Form A	2A @ 30 VAC/VDC (resistive)		
Auxiliary alarm contacts:	Form C (2 sets)	10A @ 30 VDC (resistive)		
		10A @ 277 VAC (resistive)		
		1/8 HP @ 120 VAC		
		1/4 HP @ 240 VAC		
Supervisory contacts:	Form B	0.3 A @ 30 VDC (resistive)		
		0.3 A @ 30 VAC (resistive)		
Power requirements (Using no accessories)	20.4 - 26.4 VAC	102-132 VAC	204-264 VAC	20-29VDC
Max. standby current	.070 A	.030 A	.020 A	.020 A
Max. alarm current	.160 A	.040 A	.025 A	.060 A
(Using max. accessories)				
Max. alarm current	.220 A	.050 A	.035 A	.090 A

TESTING

Functional testing can be performed by one of the following methods:

- Hold a magnet in the slot marked "Test" on the housing until the LED lights. Confirm that the system control unit (if used) alarms properly and performs all auxiliary functions.

Reset: Place a magnet in the slot marked "Reset"

- Using the RCM-505 or RCM-606 remote test unit - Insert the key and turn clockwise to the "TEST" position and hold until the LED lights. **Reset:** Turn the key counterclockwise to the "Reset" position and hold. The LED will extinguish. Turn the key to the normal position and remove.

ORDERING INFORMATION

Part No.	Model	Description	Shipping Weight (lbs)
119-A0400	DH-60	Duct Housing, 4-wire, less detector head.	5.5
110-38020	CPD-7051D	Ionization Detector head	2.0
112-30080	PSD-7155D	Photoelectric Detector head	2.0
138-02006	RAI-4	Remote Alarm Indicator red LED lights on alarm.	1.0
138-02806	RCM-505	Remote Alarm Indicator/Keyswitch as above except with added remote test and reset keyswitch	1.0
138-02906	RCM-606	Remote Power/Alarm Indicator/Keyswitch - as above except has added green "POWER" LED which is lit during normal conditions.	1.0
252-8GJ2B	FST-2	12-inch Sampling Tube (For ducts less than 1 ft.)	0.6
252-8GK2B	FST-3	24-inch Sampling Tube (For ducts between 1 and 2 ft.)	1.0
252-8GL2B	FST-4	48-inch Sampling Tube (For ducts between 3 and 4 ft.)	1.2
252-8GM2B	FST-6	72-inch Sampling Tube (For ducts between 4 and 6 ft.)	2.0
252-8GN2B	FST-8	96-inch Sampling Tube (For ducts between 6 and 8 ft.)	3.0
252-8GP2B	FST-10	120-inch Sampling Tube (For ducts between 8 and 10 ft.)	3.5