Innovair 4-Wire Low-Profile



3825 Ohio Avenue, St. Charles, II, 60174 1-800-SENSOR2 (736-7672), Fax 630-377-6495 http://www.systemsensor.com

Models Available

DH100ACDCI 4-wire Ionization Detector DH100ACDCP 4-wire Photoelectronic Detector

Tube Installation Chart:

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Supplemental	Duct		
Tube Holes	Width		
5	12" - 14"		
6	14" - 16"		
7	16" - 18"		

Electrical Ratings – DH100ACDC (Includes Detector)

Power supply voltage: Input capacitance: Reset voltage: Reset time (with RTS451): Reset time (by power down): Power up time: Alarm response time: Sensitivity Test:

24 VAC 50-60-Hz 20-29 VDC 270*m*F max. 3.0 VDC min. .03 to 0.3 sec. 0.6 sec. max. 34 sec. max. 2 to 17 sec. See detector label See detector label

270 mF max. 2.0 VAC min. .03 to 0.3 sec. 0.6 sec. max. 34 sec. max. 2 to 17 sec.

Operating

Humidity Range:

Air Duct Velocity:

120 VAC 50-60 Hz N/A 10 VAC min. .03 to 0.3 sec. 0.6 sec. max. 34 sec. max. 2 to 17 sec. See detector label

N/A 20 VAC min. .03 to 0.3 sec. 0.6 sec. max. 34 sec. max. 2 to 17 sec. See detector label

220/240 VAC 50-60 Hz

Power Supply Voltage	20 - 29 VDC	24 VAC 50 - 60 Hz	120 VAC 50 -	120 VAC 50 - 60 Hz		220/240 VAC 50 - 60 Hz		
CURRENT REQUIREMENTS (USING N	O ACCESSORIES)	-	-	-				
Max. standby current	15 mA	35 mA RMS	25 mA RN	25 mA RMS*		15 mA RMS*		
Max. alarm current	70 mA	125 mA RMS	35 mA RN	35 mA RMS*		25 mA RMS*		
CONTACT RATINGS								
Alarm initiation contacts (SPST)	2.0A @ 30 VAC/DC (0.6 power	2.0A @ 30 VAC/DC (0.6 power factor)			ACCESSORY CURRENT LOADS AT 24 VDC			
Alarm auxiliary contacts (DPDT)	10A @ 30 VDC		DEVICE	STANDBY	TROUBLE	ALARM		
Alarm auxiliary contacts (DPDT)	10A @ 30 VDC 10A @ 250 VAC		APA451	12.5mA Max.	n/a	30mA Max.		
Note: Alarm auxiliary contacts must switch 100mA minimum at 5VDC. Alarm auxiliary contacts shall not be			PA400	0mA	n/a	15mA Max.		
connected to initiating circuits of control panels. Use the alarm initiation contact for this purpose.			RA400Z	0mA	n/a	10mA Max.		
Trouble contacts (SPDT)	2.0A @ 30 VDC (resistive)		RTS451/RTS451KEY	12mA*	n/a	7.5mA Max.		

SSK451 5mA Max 9mA Max 30mA Max. *NOTE: When a unit is powered at the 120VAC or 220/240VAC input, any combination of accessories may be used such that the given accessory loads are:

noncondensing

500 to 4000 ft./min.

Specifications

Length:	14 ³ /8 inches (37 cm.)			
Width:	5 ¹ / ₂ inches (14 cm.)			
Depth:	2 ³ /4 inches (7 cm.)			
Shipping Weight:	3.75 lbs. (1.7 kg.)			
Operating Temperature Range:				
Photoelectric:	32° to 131° F (0° to 55° C)			
Ionization:	32° to 120° F (0° to 49° C)			



10% to 93% relative humidity

* Patent pending

Wiring Guide System wiring diagram for 4-wire duct smoke detectors

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NOTE: Wiring diagram shown is for DH100ACDC 4-wire duct smoke detector system equipped without a control par

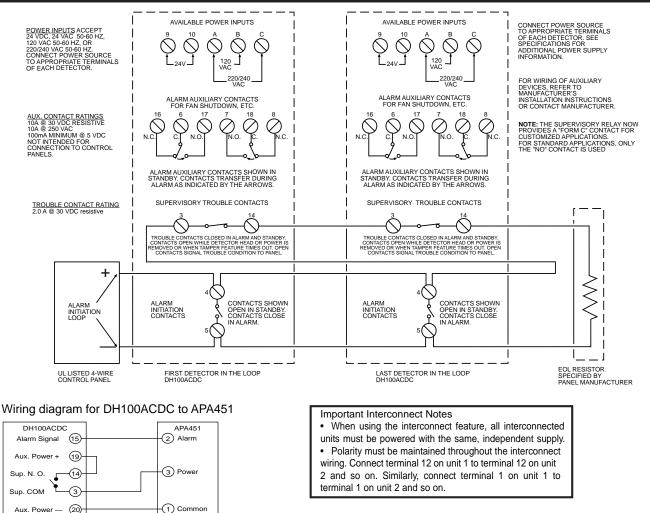
NOTE: A trouble condition is indicated when the green LED

nanel

Aux, Power -

SSK451

Coil Note



Wiring diagram for the RTS451/RTS451KEY and interconnect feature

