

DATA SHEET

HS-100-P

PHOTOELECTRIC DUCT SMOKE DETECTOR



PRODUCT DESCRIPTION

The HS-100 Special Application Photoelectric Duct Smoke Detector is designed specifically for installations where standard external mount duct detectors cannot be utilized. Application examples include HVAC plenum return systems in commercial rooftop package units, air shafts, between-ceiling plenum spaces, dampers and applications requiring extremely low or no air velocity (≤ 100 ft./min).



AGENCY LISTING



PRODUCT FEATURES

- No- and Low-Flow Technology: listed for velocities between 0-3,000 ft./min models
- Listed for high-temperature applications
- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Interconnect up to 30 units for common functions
- Compatible for interconnection and operation with Air Products' SL-2000 and SM-501 Duct Smoke Detectors, MSR Series Remote Accessories and MS Series Remote Accessories
- Accessible, discrete terminal blocks for easier wiring
- Flashing LED on detector head indicates normal operation
- Magnet test capability (magnet included)
- More wiring space than competitive models
- Unit includes red alarm visual indicator
- CSFM Listing and MEA Acceptance
- Compact, lightweight size means easy handling, lower shipping costs
- One set of 10A form "C" alarm contacts
- One set of 2A form "A" alarm contacts
- One set of 10A form "C" trouble contacts
- Large terminal connection screws
- Standard interchangeable "plug-in" UL268 photoelectric heads
- Advanced detector head design yields internal dust filtering
- Compatible with building automation and fire alarm systems
- Complete wiring details permanently attached to unit
- Standard 4" square back box mounting allows surface or "pendant" configurations
- Low profile design
- Tamper-resistant feature

ACCESSORIES

MSR-100 series	Remote Stations (test reset function)	TG-1000	Solo Smoke Gas w/TestPort Nozzle
MSR-50 series	Remote Stations (test reset function)	TG-2500	Centurion Smoke Gas w/TestPort Nozzle
MS- series	Remote Stations (push button & key reset)	T-PB series	Power supplies, 24VAC from 115VAC @1.0A input

TECH SUPPORT PAGE:

Visit our Tech support page for guides & videos on how to wire our duct smoke detectors.
apcfire.com/support

PRODUCT SPECIFICATIONS

MODEL NUMBER:	HS-100-P (230VAC, 115VAC, 24VAC, 24VDC)	
SMOKE SENSOR MODEL NUMBER:	55000-335DCT	
POWER REQUIREMENTS: (without accessories)	230VAC	12 mA
Standby:	115VAC	25 mA
	24VAC	35 mA
	24VDC	15 mA
Alarm:	230VAC	16 mA
	115VAC	32 mA
	24VAC	94 mA
	24VDC	56 mA
RELAY CONTACT RATING:		
Alarm Contacts:	Resistive load: 1 set form "C" rated at 10 Amps @ 115VAC Resistive load: 1 set form "A" rated at 2 Amps	
Trouble Contacts:	Resistive load: 1 set form "C" rated at 10 Amps @ 115VAC	
AIR VELOCITY:	0 to 3,000 ft./min.	
AMBIENT TEMPERATURE:	32°F to 140°F (0°C to 60°C)	
HUMIDITY:	0 to 85% RH Non-Condensing / Non-Freezing	
WIRING:	Solid or stranded: #12 to #22 AWG terminals	
APPROVALS:	UL & CUL Listed (UL268A, UROX, UROX7) File # S2829 CSFM Listed (3240-1004:108)	
MATERIAL:	White plastic base/housing and detector (Makrolon 94V-0)	
DIMENSIONS:	6" Dia. x 4.0" H Overall / 2.6" from back box front	
MAX. NET WT.:	1 lbs.	
MOUNTING:	Standard 4" square back box, not included	

ENGINEERS & ARCHITECTS SPECIFICATIONS

Air duct smoke detectors shall be Air Products and Controls Inc. HS-100 Series. For photoelectric detectors the model number is HS-100-P. The detectors shall be listed by Underwriters Laboratories per UL 268A.

The detectors shall operate at air velocities from 0 feet per minute to 3,000 feet per minute and at temperatures of no greater than 140°F (60°C). Detector head shall not require additional filters or screens which must be maintained, and shall include both a standby and alarm visual indication.

The unit shall contain a photoelectric detector base.

Terminal connections shall be of the screw type, a minimum of #6 screw (#12 to #22 AWG compatible). Terminals shall be provided for remote pilot, remote alarm indications, strobe/horn, and remote test/reset switch. All wiring must comply with local codes and regulations.

A method of testing the alarm function with a magnet must be provided. A method of smoke testing the detector must be provided. All unit, remote accessory, and common function connection designations must be permanently affixed to the unit. Capability for interconnection of up to 30 units shall be provided for common functions.

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