

Harrington Signal Inc.
2519 4th Avenue, Moline, Illinois 61265
P.O. Box 590, Moline, Illinois 61266-0590
Phone: (800) 577-5758 Local: (309) 762-0731 Fax: (309) 762-8215
Internet: www.harringtonfire.com



Description

The SL-2000 Series Smoke Duct Detector is the latest innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial and Residential applications.

The unit is designed to prevent the re-circulation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down in the event of smoke detection.

The SL-2000 is designed and built to meet all local code requirements, as well as the NFPA and ICC standards regarding HVAC supply and return duct smoke detectors. Output terminals are provided for a wide range of remote accessories such as horns, strobes, remote status indicators, and test/reset key switches or push buttons.

Features

- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Low-Flow Technology: Both

- Ionization and Photoelectric models listed for velocities between 100-4000 ft./min
- Both models listed for high-temperature applications
- Interconnect up to 30 units for common functions
- Clear cover fitted with four captive "No-Tools Required" thumbscrews
- Instantaneous cover removal
- trouble indication
- Staggered terminal blocks for easier wiring
- Flashing LED on detector head indicates normal operation
- More wiring space than competitive models
- Footprint allows easy retrofit in many applications without additional drilling
- Duct wall gaskets on back of enclosure are pre-installed
- Reset Switch is also an alarm test switch-competitive models require a magnet or cover removal to test at unit
- Unit includes green pilot and red alarm visual indicators
- External mounting tabs do not require cover removal to install
- Colored cover gasket indicates proper cover seal

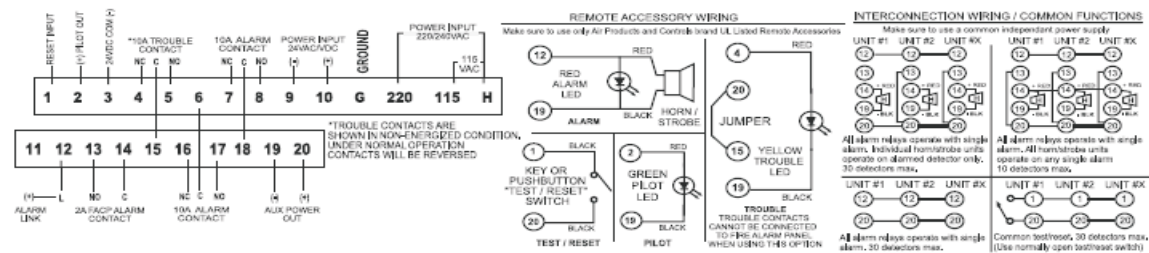


- Compact, lightweight size means easy handling, lower shipping costs
- Two sets of 10A form "C" alarm contacts
- One set of 2A form "A" alarm contacts
- One set of 10A form "C" trouble contacts
- Large terminal connection screws
- Standard interchangeable "plug-in" UL268 photoelectric or ionization heads
- Advanced detector head design yields internal dust filtering
- No additional screens or filters to clean
- Compatible with building automation and fire alarm systems
- Complete wiring details permanently attached to unit

Ordering Information

Model Number	Part Number	Description
SL-2000-N	SL-2000-N	Ionization Smoke Duct Detector
SL-2000-P	SL-2000-P	Photoelectric Smoke Duct Detector
STN-1.0	STN-1.0	Sampling tube for 12" or less duct width
STN-2.5	STN-2.5	Sampling tube for 6" to 2.5' duct width
STN-5.0	STN-5.0	Sampling tube for 2.5' to 5.0' duct width
STN-10.0	STN-10.0	Sampling tube for 5.0' to 10.0' duct width

WIRING



SPECIFICATIONS

MODEL NUMBER:	SL-2000-N	Ionization: 230VAC, 115VAC, 24VAC, 24VDC
	SL-2000-P	Photoelectric: 230VAC, 115VAC, 24VAC, 24VDC
DETECTOR MODEL NUMBER:	SL-2000-N	55000-225APO
	SL-2000-P	55000-328APO
SAMPLING TUBES:	STN-1.0	Sampling tube for 12" or less duct width
	STN-2.5	Sampling tube for 6" to 2.5' duct width
	STN-5.0	Sampling tube for 2.5' to 5.0' duct width
	STN-10.0	Sampling tube for 5.0' to 10.0' duct width
ACCESSORIES:	MS- and MSR-Series remote accessories, WP-2000 weatherproof enclosure, TG-2000 aerosol test gas, and T-PB power supplies	
POWER REQUIREMENTS: (without accessories)	230VAC	8mA
Standby:	115VAC	14mA
	24VAC	55mA
	24VDC	14mA
Alarm:	230VAC	18mA
	115VAC	32mA
	24VAC	190mA
	24VDC	68mA
RELAY CONTACT RATING:	Resistive load: 2 sets form "C" rated at 10 Amps @ 115VAC	
Alarm Contacts:	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:	100 to 4,000 ft./min.	
AMBIENT TEMPERATURE:	SL-2000-N	32°F to 158°F (0°C to 70°C)
	SL-2000-P	32°F to 140°F (0°C to 60°C)
HUMIDITY:	85 ± 5 % RH (@ 32 ± 2°C; 86 ± 3.6°F) Non-Condensing/Non-Freezing	
WIRING:	Solid or stranded: #12 to #22 AWG terminals	
APPROVALS:	UL268A CSFM Listed (3240-1004: 105) MEA Accepted (73-92-E; VOL.27)	
MATERIAL:	Grey plastic backbox, clear plastic cover (Makrolon 94V-0)	
DIMENSIONS:	13 1/2" L x 4 1/2" W x 2 1/4" H	
MAX. NEW WT.:	2 1/2 lbs.	
RADIOACTIVE ELEMENT:	For SL-2000-N (Ionization) Americium 241; 0.9 Micro-Curie Do not expose to corrosive atmospheres	
HARDWARE:	7" exhaust tube, sampling tube end cap, mounting template, test magnet, and mounting hardware included	

ENGINEERS & ARCHITECT SPECIFICATIONS

Air duct smoke detectors shall be SL-2000 Series. For ionization detectors the model is SL-2000-N. For photoelectric detectors the model is SL-2000-P. The detectors shall be listed by Underwriters Laboratories per UL 268A. The detectors shall operate at air velocities from 100 ft./min. to 4,000 ft./min. and at temperatures of no greater than 140°F (60°C). Visual indication of alarm and power must be provided on the detector front. A manual reset switch shall be located on front of the device. Detector head shall not require additional filters or screens which must be maintained, and shall include both a standby and alarm visual indication. The housing shall contain a detector base which will accept photoelectric or ionization detector heads. 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 smoke testing the detector without removing the cover must be provided. All unit, remote accessory, and common function connection designations must be permanently affixed to the unit. Cover and sampling/exhaust tube installation or removal must not require the use of tools. Capability for interconnection of up to 30 units shall be provided for common functions. Sample and exhaust tubes shall be capable of removal/installation from the front and/or rear of the detector for inspection/maintenance.

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.