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SL-DA4R Series

Analog Addressable Duct Smoke Detectors



Description

The SL-DA4R Series Smoke Duct Detector is the latest analog addressable 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 via the building's fire alarm control panel (FACP) in the event of smoke detection.

The SL-DA4R 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 key switches or push buttons.

The SL-DA4R includes many features that represent true innovations from current generation duct smoke detectors. Our traditional installer / servicer-friendly approach has been closely followed and expanded throughout the SL-DA4R. This philosophy provides a new level of efficiency in after-purchase value to

both the installer/servicer and end-user.

Features

Low-Flow Technology

- Both Ionization and Photoelectric models listed for high temperature applications
- Operating voltages: 24VAC or 24 VDC
- Units supplied with slide-in XPERT Card for easy device addressing
- Patent pending "No Tools Required" front or rear loading and removing sampling/exhaust tubes
- Patent Pending "Test Port Value" allows for aerosol smoke testing without cover removal
- Clear cover fitted with four captive "No Tools Required" thumbscrews
- Instantaneous cover removal trouble indication
- In-line terminal block for easier wiring
- Steady red LED on detector head indicates alarm operation
- More wiring space than competitive models
- Footprint allows easy retrofit in many applications without additional drilling



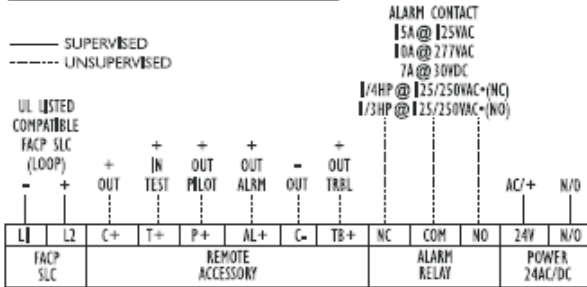
- Over 15 remote accessories available
- Duct wall gaskets on back of enclosure are pre-installed
- Compatible with the WP-2000 weatherproof enclosure
- Built in alarm relay test switch
- Unit includes green pilot and red alarm visual indicators
- External mounting tabs do not require cover removal to install
- Colored cover gasket indicates proper cover seal
- One set of 15A form "C" alarm contacts
- Large terminal connection screws
- XP95A interchangeable "plug-in" UI268 photoelectric or ionization heads
- Advanced detector head design yields internal dust filtering
- No additional screens or filters to clean
- Compatible with fire alarm systems utilizing Apollo Xp95 and/or Discovery

Ordering Information

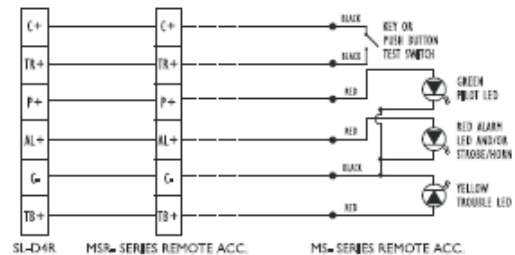
Model Number	Part Number	Description
SL-DA4R-N	SL-DA4R-N	Ionization 4-Wire Duct Detector
SL-DA4R-P	SL-DA4R-P	Photoelectric 4-Wire Duct Detector
STN-1.0	STN-1.0	Sampling Tube for 12" or less duct width
STN-2.5	STN-2.5	Sampling Tube for 6" to 2.5' duct width
STN-5.0	STN-5.0	Sampling Tube for 2.5' to 5.0' duct width
STN-10.0	STN-10.0	Sampling Tube for 5.0' to 10.0' duct width

WIRING

Terminal Connections



Remote Accessory Wiring



Product Specifications

Model Number:	SL-DA4R-N	Ionization: 24VAC or 24VDC
	SL-DA4R-P	Photoelectric: 24VAC or 24 VDC
XP95A Detector Model Number	SL-DA4R-N	55000-550
	SL-DA4R-P	50000-650
Detector Compatibility:	FACP utilizing XP95 and/or Discovery protocols	
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 and TG-2000 aerosol test gas and T-PB power supplies	
Control Board Power Requirements:		
(without accessories)	Standby:	24VAC 105mA 24VDC 26 mA
	Alarm:	24VAC 195mA 24VDC 54mA
Relay Contact Rating:	Alarm Contacts:	Resistive load: 1 set form "C" rated at 15 Amps @ 125VAC 10Amps @ 277VAC 7 Amps @ 30VDC Inductive load: 1/4 HP @ 125/250VAC (NC) 1/3 HP @ 125/250VAC (NO)
Air Velocity:	100 to 4,000 ft./min.	
Ambient Temperature:	SL-DA4R-N	32°F to 150°F (0°C to 66°C)
	SL-DA4R-P	32°F to 140°F (0°C to 60°C)
Humidity:	10 - 95% 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 (3240-1004:116) Mea Accepted (73-92-E Vol. 36)	
Material:	Grey plastic backbox, clear plastic cover (Makrolon 94V-0)	
Dimensions:	13 1/2" L x 4 1/2W x 2 1/4" H	
Max. Net Wt.:	2.25 lbs.	
Radioactive Element:	For SL-DA4R-N (Ionization) Americium 241; 0.9 Micro-Curie Do not expose to corrosive atmospheres	
Hardware:	7" exhaust tube, sampling tube end cap, mounting template and mounting hardware included	

Engineering & Architects Specifications

Air duct smoke detectors shall be Air Products and Controls Inc. SL-DA4R Series. For ionization detectors the model number is SL-DA4R-N. For photoelectric detectors the model number is SL-DA4R-P. The detectors shall be limited by Underwriters Laboratories per UL 268A. The detectors shall operate at air velocities from 100 ft. Per minute to 4,000 ft. Per minute at temperatures of no greater than 140°F (60°C). Visual indication of alarm must be provided on the detector front. A manual alarm relay / test switch located on the front of the device shall be provided. Detector head shall not require additional filters or screens which must be maintained, and control board shall include both a standby and alarm visual indications. The housing shall contain a detector base which will accept photoelectric or ionization detector heads as well as a means of detector addressing. 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 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 and remote accessory connection designations must be permanently affixed to the unit. Cover and sampling tube 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. Modem is an accessory only (non UL listed)

Call for availability on items not listed in the ordering information