Description
The IS802 Photoelectric detector uses the same outer case as the ionization smoke detector. The housing is white polycarbonate and will not fade. Terminals are nickel plated stainless steel.

Operation
Within the case is a printed circuit board which, on one side, has the light-proof chamber with integral gauze surrounding the optical measuring system and, on the other, the signal processing and communications electronics. An infra-red light emitting diode is arranged at an obtuse angle to the photo-diode. The photo-diode has an integral daylight-blocking filter. The IR LED emits a burst of light every second. In clear air the photo-diode receives no light directly from the IR LED, because of the angular arrangement and the chamber baffles. When smoke enters the chamber it scatters light from the emitter IR LED onto the photo-diode in an amount related to the smoke characteristics and density. The photo-diode signal is processed to provide an analogue value for transmission when the detector is interrogated.

Features
- Compatible with Harrington's FireSpy® Tracker 1000, 2000, and 8000 panels
- 5 operating modes
- Drift compensation
- Address is set by X-Pert card and is stored in base
- Alarm flag for fast alarm reporting

Ordering Information

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Specifications
Standby current: 400uA
Alarm current: 3.4mA
Alarm LED current: 3.4mA
Operating voltage: 17-28VDC
Max. continuous operating temp: 140°F
Min. continuous operating temp: 32°F
Min. operating -4°F (no condensation/icing)
Storage: -22°F to 176°F
Detector weight: 3.68oz
Detector with base weight: 5.62oz

Engineering Specifications
The photoelectric smoke sensor shall be Harrington Signal IS802, where indicated on the plans, with one of the several addressable mounting base options available. The photoelectric smoke detector shall include compensation for sensor drift as part of the internal signal-processing algorithm. The photoelectric sensor head and twist-lock mounting base shall be UL Listed and UL Listed as compatible with the FireSpy® Tracker 1000, 2000, and 8000 Addressable Fire Alarm Control Panels. The base shall permit free interchange of sensor heads without requiring any additional wiring or additional programming of the head or base. The smoke sensor shall contain an integral LED that shall latch in when the unit goes into alarm. RF suppression techniques shall be employed to minimize false alarms. The photoelectric smoke sensor shall have automatic conventional false safe mode if the detector's polling mechanism fails.

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The products described have specific instructional/installation documentation, which covers various technical, approval, code, limitation and liability information. Copies of this documentation along with any general product warning and limitation documents, which also contain important information, are provided with the product and are also available from Harrington Signal Inc. The information contained in all of these documents should be considered before specifying or using the products. Any example applications shown are subject to the most current enforced local/national codes, standards, approvals, certifications, and/or the authority having jurisdiction. All of these resources, as well as the specific manufacturer of any shown or mentioned related equipment, should be consulted prior to any implementation. For further information or assistance concerning the products, contact Harrington Signal Inc. Harrington Signal Inc. reserves the right to change any and all documentation without notice. Quality manufactured for Harrington Signal Inc. Fire Alarm by Apollo.