MGC™

PHOTOELECTRIC SMOKE DETECTORS　　　SD-100 SERIES

Features

- Two and four wire models
- Photoelectric smoke sensing technology
- Dual LEDs for 360° visibility
- Uses smoke sensor in conjunction with a fixed 135°F (57.2°C) temperature heat sensor to extend reliability
- Durable sensor head, no need for replacement
- Remote LED output on 2-wire model
- "Form A" Alarm contact on 4-wire model
- Easy installation and maintenance
- Low-profile design that blends in with any environment
- Supports the RSR-100 Remote Sensitivity Reader that provides specific information related to the sensitivity of the detector

Description

The SD-100 Series photoelectric smoke detectors are designed for a wide variety of applications. The SD-100 Series smoke detectors are suitable for use in commercial, industrial, institutional and residential occupancies. The sleek low-profile design of the detectors emphasize ease of installation and field maintenance.

All SD-100 Series smoke detectors come equipped with a sleek low-profile design and durable sensor head. Utilizing advanced detection algorithms, the SD-100 Series smoke detectors provide quality and reliability. In addition, the SD-100 Series detectors support the RSR-100 Remote Sensitivity Reader that provides specific information related to the sensitivity of the detector.

The SD-100 Series consists of 4 models:
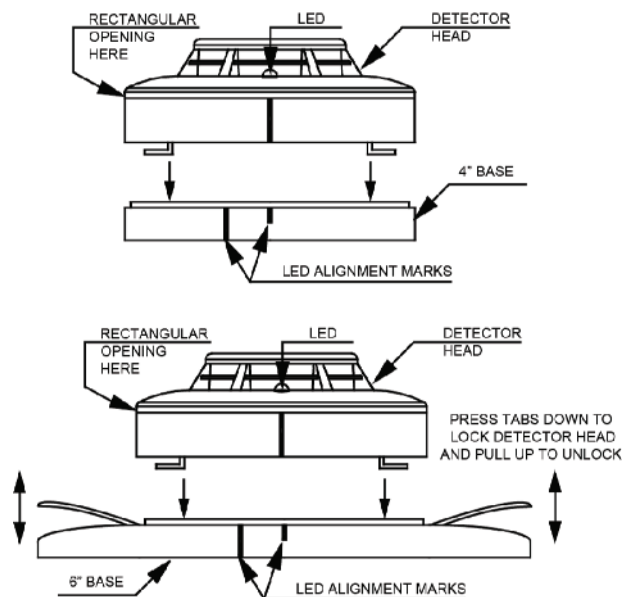
SD-100-2WT-6K/SD-100-2WP
The SD-100-2WP is a two-wire smoke detector that uses a photoelectric technology and the SD-100-2WT-6K is also a photoelectric smoke detector but with an additional fixed 135°F temperature heat sensor to further extend the sensing capabilities.

SD-100-4WT-6K/SD-100-4WP
The SD-100-4WP is a four-wire smoke detector that uses a photoelectric technology and the SD-100-4WT-6K is also a photoelectric smoke detector but with an additional fixed 135°F temperature heat sensor to further extend the sensing capabilities.

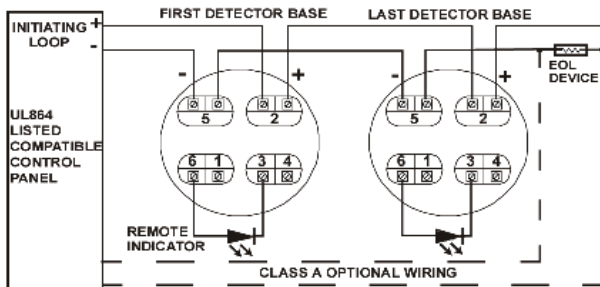All four models include a 6-inch base and a remote LED output.

Installation Diagram

CATALOG NUMBER
5356

Electrical Specifications

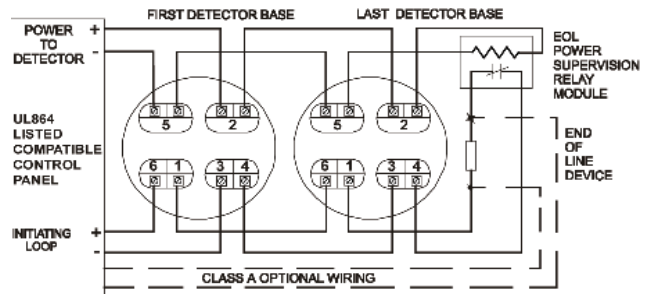| Model	2/4 wire	Thermal Sensor	Voltage DC	Standby Current (Max.)	Alarm Current (Max.)	Surge Current (Max.)	Start-Up Time (Max.)	Permissible Current (Max.)	LED Flash Interval	Alarm contact
SD-100-2WP	2	-	12.0~28.0V	140µA	90mA	200µA	60 Seconds	90mA	5-7 Seconds	—
SD-100-4WP	4	-	10.5~33.0V	140µA	48mA	200µA	60 Seconds	48mA	5-7 Seconds	—
SD-100-2WT-6K	2	135°F (57.2°C)	12.0~28.0V	140µA	90mA	200µA	60 Seconds	90mA	5-7 Seconds	—
SD-100-4WT-6K	4	135°F (57.2°C)	10.5~33.0V	140µA	48mA	200µA	60 Seconds	48mA	5-7 Seconds	Form A

SD-100-2WP and SD-100-2WT-6K Wiring Diagram

NOTE: IF REMOTE INDICATOR IS NOT USED, REVERSING POLARITY ON DETECTOR IS PERMITTED.

SD-100-4WP and SD-100-4WT-6K Wiring Diagram

RSR-100 Remote Sensitivity Reader

The RSR-100 Remote Sensitivity Reader is designed to measure the sensitivity of the SD-100 Series smoke detectors. This battery-powered device is equipped with an infrared optical interface for reading data sent by the smoke detector. The SD-100 decodes the sensitivity and status data and displays the information on its LCD display. The RSR-100 may be used either as a hand-held device or with a standard threaded extension pole.

Ordering Information

Model	Description
SD-100-2WP	2 wire Photoelectric Smoke Detector with remote LED output, includes 6-inch base.
SD-100-4WP	4 wire Photoelectric Smoke Detector with remote LED output, includes 6-inch base.
SD-100-2WT-6K	2-Wire Photoelectric Smoke Detector with Heat Sensor and Remote LED output, includes 6-inch base.
SD-100-4WT-6K	4-Wire Photoelectric Smoke Detector with Heat Sensor, includes 6-inch base.
RSR-100	Remote Sensitivity Reader for SD-100 Series smoke detectors

CAT. 5356

Rev. 0