WIRELESS PHOTOELECTRIC SMOKE DETECTOR
SDLH-97F

INTRODUCTION

The SDLH-97F detects smoke particles using photoelectric signal processing. The SDLH-97 has very low consumption of power, low voltage indication and signalling. The detector is dustproof and insect-proof and has an anti-light interference function to ensure detector stability. The detector performs very reliably in detecting visible smoke caused by hidden or immediate fire situations. The SDLH-97F is suitable for all homes and all commercial premises, large and small.
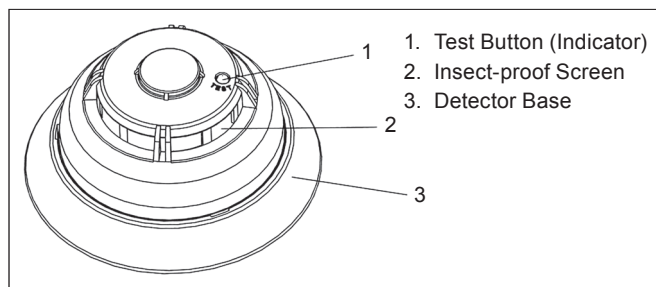
IMPORTANT

1. Do not install in extremely hot, cold, or drafty surroundings or where there is a lot of smoke or dust.

2. The detector should be tested once every month.

3. To ensure reliable performance clean the detector surface with a soft brush every 6 months. Remove the battery before cleaning.

4. If the detector is found to be defective, do not attempt to disassemble it. Please contact your installer for servicing.

FEATURES

- Super low power consumption (20 months battery life)
- Low voltage supervision and indication
- Signal supervision to Meridian alarm hourly (selectable, default on)
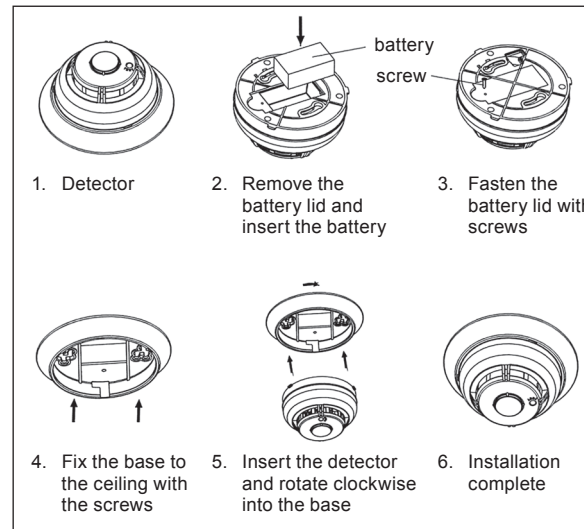- Supervision setting stored in memory

GENERAL VIEW

1. Test Button (Indicator)
2. Insect-proof Screen
3. Detector Base

TECHNICAL SPECIFICATIONS

Supply Voltage	9VDC
Standby Current	≤10µA
Alarm Current	≤35mA
Operating Temperature	-10°C - +50°C
Operating Humidity	≤95% RH
Mounting Method	Ceiling Mounted
Detecting Range	20m^2
LED Frequency	Every 20 seconds
Output Pattern	Sounder & Light Wireless Signal Output (868 Mhz)
Sensor Type	Infrared Photoelectric Diode
Sensitivity Adjustment	+/-1 degree
Low Voltage Alarm Threshold	6.5 +/- 2%
Wireless Range	> 100m (free air)

INSTALLATION

1. Install the battery.

2. Choose a suitable mounting position (normally the centre of the detecting area on the ceiling), mount the detector base with the screws provided, then push the detector into the base and rotate it into its lock position.

1. Detector
2. Remove the battery lid and insert the battery
3. Fasten the battery lid with screws
4. Fix the base to the ceiling with the screws
5. Insert the detector and rotate clockwise into the base
6. Installation complete

TESTING

1. Refer to the Meridian IP alarm installation manual for registering the SDLH-97F wireless smoke detector to the alarm panel. The wireless ID number for registering the smoke detector with the alarm can be found inside the cover of the battery compartment.

2. When the battery is installed the detector self-checks, the LED flashes 10 times and the detector initializes. The buzzer 'beeps' to indicate the supervision function is on. If the buzzer sounds 'beep''beep' then the supervision function is off. After initialization the detector is in its normal detecting state.

3. With supervision activated, the detector reports hourly to the Meridian alarm panel. Supervision is on by default. To turn off supervision, press the 'Test' button during the self-checking period until the buzzer sounds 'beep''beep'. To reinstate supervision mode, remove the battery for 60 seconds then re-install. Press the 'Test' button during self-checking until the buzzer sounds 'beep'. The detector will retain its supervision mode setting even if battery power is lost.

4. In its normal detecting state, the LED indicator flashes every 20 seconds. When the detector is activated a wireless alarm signal is sent to the Meridian alarm panel, the LED flashes every 2 seconds and the buzzer sounds.

5. After alarming, if the smoke dissipates, the detector reverts to its normal monitoring status.

6. When low voltage is detected, a low voltage report is sent to the Meridian alarm panel. Typically the detector has around 20 day's battery life remaining when a low voltage is reported. The LED flashes every 20 seconds and the buzzer 'beeps' to remind the user to change the battery.

7. Press the 'Test' button to send a wireless test signal to the Meridian alarm panel. The LED flashes once and the buzzer 'beeps'. Smoke can also be used for testing product function.