

# PRODUCT SPECIFICATIONS

Doc. No. SD01-PD02

**X-SENSE®**  
Ultimate Safety Experts



## Photoelectric Smoke Alarm with Escape Light

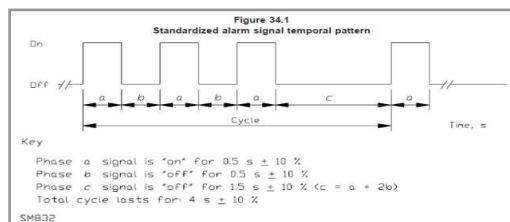
SD01

### Technical Specifications

<b>Sensor Type</b>	Photoelectric smoke sensor
<b>Operating Voltage</b>	3.0 V DC
<b>Battery Type</b>	3.0 V lithium battery
<b>Standby Current</b>	BAT1 < 6 $\mu$ A; BAT2 < 6 $\mu$ A (The average static current is less than 6 $\mu$ A during a 10-minute test.)
<b>Alarm Current</b>	BAT1 < 5 mA; BAT2 < 60 mA
<b>Audibility Level</b>	> 85 dB @ 3 m
<b>Operating Ambient Temperature</b>	40-100 °F (4.4-37.8 °C)
<b>Operating Relative Humidity</b>	≤ 85% (non-condensing)
<b>Safety Standards</b>	EN 14604
<b>Product Life</b>	10 years

## Working Modes

<b>Powering On</b>	After the unit is fully mounted into the mounting bracket, it will automatically turn on. The LED indicator will blink 8 cycles (red/green/yellow) in sequence. Afterwards, the LED indicator will turn off, and the unit will enter the standby mode.
<b>Standby Mode</b>	The LED indicator will flash green once every 60 seconds.
<b>End of Life</b>	Once the maximum lifetime (10 years) is reached, the alarm will deliver 2 beeps and the LED indicator will flash yellow twice every 30 seconds. This end-of-life signal can be temporarily silenced for 3 days by pressing the test button. The end-of-life silence feature can only be used for a total of 30 days. After 30 days, the end-of-life signal cannot be silenced.
<b>Fault Indication</b>	The alarm will deliver 2 beeps approximately every 40 seconds and the LED indicator will flash yellow 1-4 times.
<b>Exiting an Alarm</b>	When the smoke concentration drops below the alarm threshold, the alarm signal stops, the LED indicator will continuously flash green once per second for 5 seconds and then enter the standby mode.
<b>Silence Duration</b>	Smoke: approx. 9 minutes
<b>Silence Function</b>	<ul style="list-style-type: none"> <li>• During the silence mode, the LED indicator will flash red once every 5 seconds.</li> <li>• If you press the Test/Silence button during a smoke alarm, the alarm will be terminated and the escape light will be turned off. If the smoke density still exceeds the alarm threshold, the unit will deliver an alarm after 9 minutes.</li> </ul>
<b>Low Battery Warning</b>	<ul style="list-style-type: none"> <li>• Low Voltage Range: 2.65-2.75 V DC</li> <li>• The LED indicator will flash yellow together with 1 beep every 60 seconds.</li> </ul>
<b>Test Button</b>	<ul style="list-style-type: none"> <li>• The escape light will flash once for 1 second.</li> <li>• Once the alarm is in test mode, the alarm will deliver 2 sets of 3 long beeps, to indicate the alarm is operating normally. The LED indicator will flash red with the alarm sound.</li> <li>• To silence the unit during an alarm.</li> <li>• To test the unit's electronics and check the alarm function.</li> </ul>
<b>Alarm Mode</b>	The unit will deliver 3 long beeps every 1.5 seconds. The LED indicator will flash red with the alarm sound. The escape light will turn on when the alarm sounds to guide your way to safety.



## Smoke Sensitivity

Smoke Sensitivity	Test Direction	Air Flow	Sensitivity
	LFP (Least Favorable Position)	0.2 m/s	0.10-0.17 dB/m