

PRODUCT SPECIFICATIONS

Doc. No. SD12-PD01

X-SENSE®
Ultimate Safety Experts



Photoelectric Smoke Alarm

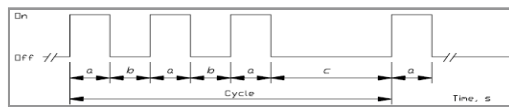
SD12

Technical Specifications

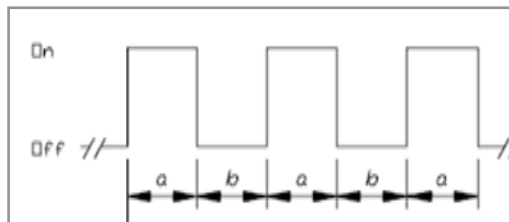
Safety Standards	EN 14604
Sensor Type	Photoelectric
Operating Voltage	3 V DC
Battery Type	3 V lithium battery (EVE CR17335)
Standby Current	< 6 μ A (The average standby current is no higher than 6 μ A during the 30-minute test by using UT181A.)
Alarm Current	< 30 mA
Audibility Level	\geq 85 dB at 3 m
Operating Ambient Temperature	32 to 131 °F (0 to 55 °C)
Operating Relative Humidity	< 95% RH (non-condensing)

Working Modes

Alarm Indication	Red LED flashes with the alarm sounding repeatedly.
Standby Mode	Red LED flashes every 60 seconds.
Malfunction Warning	Red LED flashes with 2 beeps every 40 seconds.
Silence Duration	Approx. 9 minutes
Silence Indication	Red LED flashes every 5 seconds without beeps.
Low Battery Warning	<ul style="list-style-type: none"> Low Battery Voltage Range: 2.6 ± 0.05 V DC Red LED flashes with 1 beep every 60 seconds.
Sounder Output Pattern When the Alarm is Triggered	<p> $a = 0.5$ seconds $\pm 10\%$, $b = 0.5$ seconds $\pm 10\%$, $c = 1.5$ seconds $\pm 10\%$, The total cycle lasts for 4 seconds $\pm 10\%$ and its sound frequency is 3.2 ± 0.3 kHz. </p>



Test Button	<p>Test Mode: Press the test button, red LED flashes every 0.5 seconds and the alarm beeps 3 times with the sounder output pattern (0.5 seconds $\pm 10\%$, off 0.5 seconds $\pm 10\%$ and on 0.5 seconds $\pm 10\%$). Otherwise, it's in malfunction.</p>
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Smoke Sensitivity

	Test Direction	Air Flow	Smoke Test Box	Sensitivity
Smoke Sensitivity	0° from the LED	0.20 m/s	AWT1100	0.095 dB/m-0.155 dB/m