

PRODUCT SPECIFICATIONS

Doc. No. SD02-PD02

X-SENSE®
Ultimate Safety Experts



10 YEARS
Long Battery Lifetime



EASY INSTALLATION

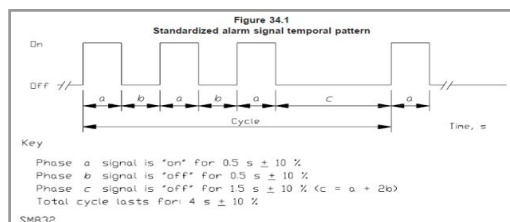
Photoelectric Smoke Alarm with Escape Light SD02

Technical Specifications

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

Working Modes

Powering On	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.
Standby Mode	The LED indicator will flash green once every 60 seconds.
End of Life	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.
Fault Indication	The alarm will deliver 2 beeps approximately every 40 seconds and the LED indicator will flash yellow 1-4 times.
Exiting an Alarm	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.
Silence Duration	Smoke: approx. 9 minutes
Silence Function	<ul style="list-style-type: none"> • During the silence mode, the LED indicator will flash red once every 5 seconds. • 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.
Low Battery Warning	<ul style="list-style-type: none"> • Low Voltage Range: 2.65-2.75 V DC • The LED indicator will flash yellow together with 1 beep every 60 seconds.
Test Button	<ul style="list-style-type: none"> • The escape light will flash once for 1 second. • 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. • To silence the unit during an alarm. • To test the unit's electronics and check the alarm function.
Alarm Mode	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

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