

SD-651-C

Low Profile Photoelectronic Plug-in Smoke Detectors

General

The SD-651-C low-profile photoelectronic detector uses a state-of-the-art optical Sensing chamber. This detector is designed to provide open area protection and to be used with compatible UL listed control panels only. The capability of plugging this detector into a variety of special bases makes it more versatile than equivalent direct-wired models.

Two LEDs on each detector provide local 360° visible alarm indication. The LEDs flash RED color every 5 seconds in normal mode. The LEDs latch on in alarm. LEDs will double blink every 5 seconds when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. Remote LED annunciator capability is standard. The alarm can be reset only by a momentary power interruption. This detector may be tested by activating the internal reed switch with a magnet.



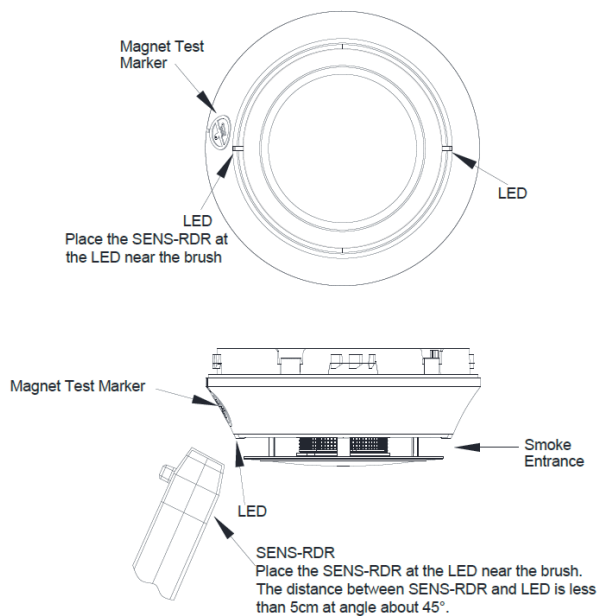
SD-651-C



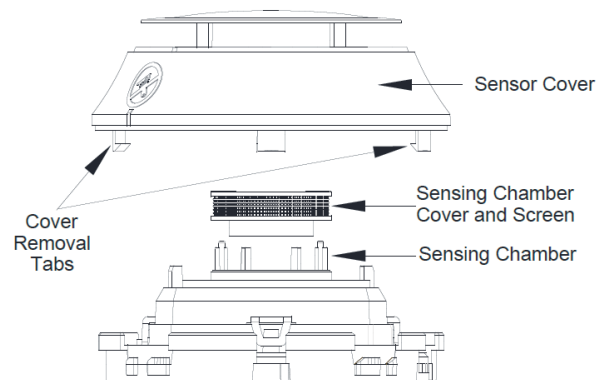
B401-W

Appearance

› FIGURE 1. Bottom and Side Views Showing Position of Test Magnet and Test Module.



› FIGURE 2.



Specifications

Mode	SD-651-C
Height	2.0 inches (51mm) installed in B401-W
Diameter	4.0 inches (102mm) with B401-W
Weight	3.3 oz.(94g)
Operating Temperature Range	32 °F to 122 °F (0°C to 50°C)
Operating Humidity Range	10% to 93% Relative Humidity noncondensing
Operating Voltage*	8.5 to 35 VDC (Only for 2-wire application)
Standby Current	120 µA
Latching Alarm	Reset by momentary power interruption.
Sensitivity	1.51~2.89%/ft
Max.Air Velocity	300 ft/min

*Note:For 4-wire application, please refer to the base manual for operating voltage.

Mode	B401-W
Base Diameter	4.0 inches (102mm)
Base Height	0.8 inches (20mm)
Weight	0.12 lb.(54g)
Mounting	50mm box / 60mm box
Operating Temperature Range	0°C to 50°C (32 °F to 122 °F)
Operating Humidity Range	10%~93% Relative Humidity
Electrical Ratings-includes base and detector	
System Voltage	12/24 VDC
Maximum Ripple Voltage	4 Volt speak-to-peak
Start-Up Capacitance	≤0.02 µF
Standby Ratings	8.5 VDC ~ 35 VDC; ≤120 µA
Alarm Ratings	10 mA~130 mA*
Reset Voltage	≥2.5 VDC
Reset Time	≤0.3 Seconds
Start-up Time	≤34.0 Seconds
Relay Contact Ratings (Resistive) Form C	NA 1.0 A @ 30 VDC

*Note: Alarm current MUST be limited by the control panel.

Ordering Table

Certified Model	Order SKU	Product Description	UOM	Agency
SD-651-C	SD-651-C	Low-profile Photoelectronic Detector, white color	EA	UL&FM
B401-W	B401-W-NTF	Plug-in Detector Base, white color	EA	UL

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.



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NF_DS_EN22004 | Rev 01 | 07/2026

