NOTIFIER®
by Honeywell

SD-651-C
Low Profile Photoelectronic Plug-in Smoke Detectors



SD-651-C



B401-W

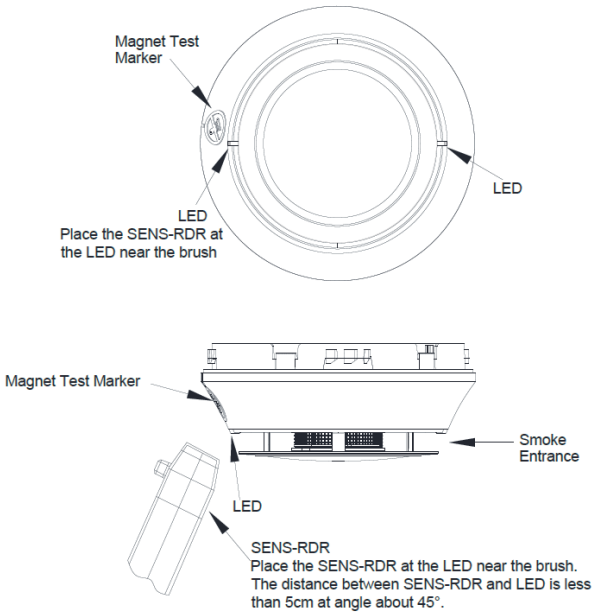
General

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.

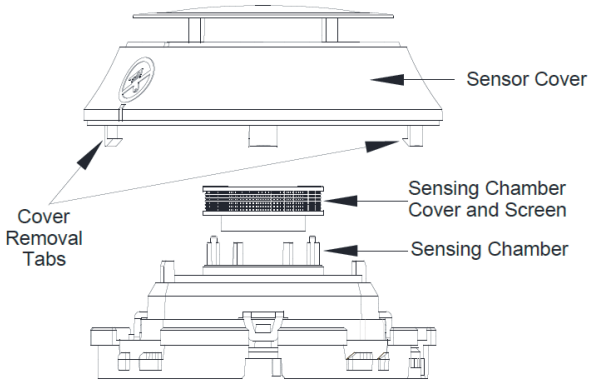
Two LEDs on each detector provide local 360° visible alarm indication. The LEDs flash RED color every 5 seconds in normal mode. The LEDs latch on in alarm. LEDs will double blink every 5 seconds when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. Remote 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.

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 to122 °F (0℃ to 50℃)
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:For4-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℃ to 50℃ (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

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

UL

FM APPROVED

Honeywell

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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NOTIFIER® by Honeywell

Smoke Detectors for Fire Alarm Systems

COMPANY

S37189

Honeywell (Xi'an) Co., Ltd
26th Floor, 1-A Building, Xixian Free Trade Center
Energy Finance and Trade Zone
Xixian New Area
Xi'an, Shaanxi 712000 China

Investigated to UL 268 (8th ed.)

Products Suitable for Ducts, D(I) and D(ST) are investigated to UL 268A

Detector			Compatibility	Velocity Range (fpm)		date of	Time of Manufacture	Firmware Version
Model	Application	Type	Restrictions	Min	Max	Manufacture	Firmware Version	Update
SD-651-C, SD-651-C-IV	OAP	P	D2	0	300	-	-	-

Base Model	Related Detector	Control Unit Compatibility Restrictions
B401-W, B401-IV	-	B3, B5

date of Manufacture identifies the manufacturing start date of all product models that will use the specific Time of Manufacture Firmware Version. The date of manufacture is noncoded and in the format YEAR (in 4 digits), MONTH (in letters), DAY (in 2 digits).

Time of Manufacture Firmware Version identifies a numerical and/or alphabetic series designation that is product and date-code specific and will only identify the Firmware Version at the time the product was manufactured. The numeric and/or alphabetic sequence is defined by the manufacturer.

Firmware Version Update is a numerical and/or alphabetic sequential identification that is product and date-code specific and sequentially identifies the Firmware Version Update from the previous version of firmware. The numerical and/or alphabetic sequence is defined by the manufacturer.

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Approvals

SD-651-C, SD-651-C-IV
Conventional Photoelectric Smoke Detector

Certificate Number: FM25US0223

Company

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http://www.honeywell.com

Detection, Fire Alarm and Signaling Equipment | Smoke Detectors | Alarm Signal Initiating Devices, Smoke Detectors

SD-651-C Conventional Photoelectric Smoke Detector

Description of Equipment:

Model SD-651-C, SD-651-C-IV conventional photoelectric smoke detector.

Models	SD-651-C, SD-651-C-IV – Two wire conventional smoke detector with B401-W, B401-IV – Four wire conventional smoke detector with B401RN, B401RN-IV
Compatible bases	Model B401RN, B401RN-IV plug-in detector base Model B401-W, B401-IV plug-in detector base
Compatible Fire Alarm Control panels	FM Approved FACPs with compatible IDCs
Sensitivity range	0.5%/ft. to 4.0%/ft.
Maximum spacing	9m by 9m (30ft by 30ft)
Heat detector	None
Operating voltage range	For two wire application: 8.5 to 35Vdc For four wire application: 20 to 29Vdc
Operating temperature range	0° to 50°C
Air velocity range	300 ft/min
Maximum humidity	Up to 93% RH, non-condensing

Approvals

Power consumption	Standby: 120 μA (maximum); For two wire application:130mA (Maximum, limited by panel) For four wire application:Alarm: 36mA (maximum);
Supervision	Model EOLR-1 EOL relay is required in power and alarm circuits (only for four wire application) 4.7 kΩ EOL resistor is required in alarm circuit (depending of an FM Approved FACP requirements)
Outputs	Two synchronous LEDs latching in alarm (reset by momentary power interruption) Form C relay contacts (only for four wire application): 1.0 A @ 30 VDC
Supplemental features	Magnetic reed switch for alarm testing
Supplemental modules	RA100Z Remote Annunciator
Transmission method	Closed alarm circuit (four wire detector)
Enclosure	Indoor use only; tamper resistant
Explanation of Prefixes/Suffixes-	-W or without suffix (White) -IV (Ivory)

Details

Category	Alarm Signal Initiating Devices, Smoke Detectors
Class of Work	3230 - Smoke Detectors-Photo&Ion
Certification Type	FM Approved
Listing Country	China
Certificate Number	FM25US0223