

# NFC-500S-UL

## CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR

### PRODUCT OVERVIEW

#### MODEL: NFC-500S-UL

NEVERFIRE photoelectric smoke detector represent a significant advancement in conventional detection, incorporating three key features which are instant inspection, intelligence and installation ease.

**Instant inspection.** NFC-500S-UL provides wide-angle red LED indicators for instant inspection of detector condition.

**Intelligence.** NFC-500S-UL carry a number of intelligent features to simplify testing and maintenance Drift compensation smoothing algorithms to avoid false alarm.

**Installation ease.** NEVERFIRE smoke detector characterizes by installation ease with its plug-in design which allows an installer to pre-wire the bases included with the head.

NFC-500S-UL photoelectric smoke detector is standard sensitivity detector is recommended for most applications, It is designed to work with all conventional panels.

photoelectric smoke detector consists of an IR emitter and Photodiode receiver, the emitter send a very narrow pulsed ray which scattered if it collides with smoke particles inside the sampling chamber. the photodiode receiver detect some of scattered beams which initiate the fire signal to the panel.



NEVERFIRE APPROVALS		PRODUCT COMPLIANCE
ISO 9001:2015 CERTIFIED	CE QACE202401069	EN54-7

### DESCRIPTION

NEVERFIRE smoke detectors are low profile and have dual LEDS with 360 degree visibility, they are flashing in standby state but in fire state, they light up continuously in red. All data is written on the detector with lasers so that it cannot be erased or changed at all.

NFC-500S-UL photoelectric smoke detectors have been designed to EN54-7 and certified CE QACE202401069<sup>(1)</sup> which play a vital role in ensuring that NEVERFIRE products placed on the market of the world are safe. NEVERFIRE products certified ISO9001:2015<sup>(1)</sup> Quality management systems and requirements, which is global standard for trusted goods and services



(1) you can view & download these certificates from ASSS website [www.asss-eg.com](http://www.asss-eg.com)

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### FEATURES

- √ Superior performance and reliability.
- √ Infrared Scattering Technology.
- √ Remote alarm indicating LED output.
- √ Two-wire, plug-in conventional detection technology.
- √ Wide angle LED's visibility (dual red color indication).
- √ 4" mounting base detector.
- √ Compatible with all NEVERFIRE conventional bases.
- √ Simplified sensitivity measurement.
- √ Removable detector cover and chamber for easy cleaning.
- √ High signal-to-noise ratio and sensitivity stability are effective in a wide range of environmental conditions.
- √ Attractive new design.
- √ Meet EN54-7 Requirements.
- √ Low power consumption.
- √ Designed for Fast and easy installation.
- √ Compatible with most of fire alarm panels.

### TECHNICAL SPECIFICATIONS

Model	NFC-500S-UL
Operating Voltage	9~33V DC from fire alarm control panel IDC
Standby current	40μA
Surge current	270μA
Alarm current	15mA
Start up current	170μ
Start up time	10seconds
Smoke Sensitivity	0.08 dB\m – 0.12dB\m
Remote Output	15mA max. open collector
Installation space	6m between each detector

### OPERATING CONDITION

Storage Temperature Range	-10°C to 50°C (14°F to 122°F)
Operating Temperature Range	0°C to 37°C (32°F to 98.6°F)
Operating Humidity Range	0%-95% Relative Humidity, non-condensing

### MECHANICAL SPECIFICATIONS

Ingress Protection Rating	IP42
Material	ABS (Fire Proof Plastic)
Color	White
Diameter	100mm Dia.
Height	55mm with base
Weight	145g with base
Packaging	90Unit/Carton
Carton Dimensions	55*33*38cm

### WARRANTY

NEVERFIRE warrants that product from defects in design, materials and workshop during the warranty peroid ensuring customers' confidence in product quality and performance.

For comprehensive information, including installation guidelines and compatibility details, please consult NEVERFIRE Installation Manual or reach out to our technical support team. Anybody, including the agents, distributors or emplyees, is not in the position to amend the contents of this warranty.

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**AL ALAMIA FOR SAFETY & SECURITY SYSTEMS COM. (ASSS )**

**Factory:** 16C,south industrial Zone,10th of Ramadan City, Sharkyia, Egypt.

**Administration:** No.6, 163 St, Behind the military hospital, El Maadi, Cairo, Egypt.

**TEL.:** +2 02 25249113

**FAX.:** +2 02 25281778

**MOBILE:** +2 01129277269

**E-Mail:** info@asss-eg.com

**WWW.ASSS-EG.COM**

**ASSS FACTORY** is the first manufacture for fire alarm system in Africa & middle east.

The com. established since 2011 located in cairo governorate while the factory located in Sharkyia governorate.