

# NB390S

## Addressable Smoke Detector



EN54-7

**NB390-S addressable photoelectric smoke detectors** are microprocessor controlled state-of-the-art detectors with built-in short circuit isolation, suitable for connection to addressable fire detection control and indicating equipment. Up to 250 detectors can be connected to each loop, depending on FDCIE compatibility. Advanced electronics, in conjunction with a photoelectric smoke sensing chamber, provide early detection of smoke and high immunity against unwanted alarms. The NB390-S range of Smart addressable detectors provides fire detection and alarm system designers with a Standards-compliant, premium smoke detector for life safety and property protection applications in environmental conditions.

### Key Features

- Advanced algorithms provide analogue detection discrimination
- Stable photoelectric smoke sensing chamber
- High immunity against unwanted alarms
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- 2-wire Smart loop connectivity
- Easy installation with simple address setting DIP switches (NB390D) or software addressing with Hand-held programmer (NB390A)
- 250 detector address settings per loop when using either WizPro2 or WizPro3 communications protocol
- Optional flashing LED polling indicator
- Built in Short circuit isolator
- Optional remote LED output
- Maintenance alert – FDCIE dependent

### TECHNICAL SPECIFICATIONS

OPERATING VOLTAGE	DC (17 ~ 28) V
START-UP TIME	≤ 5 s
STANDBY CURRENT	300 µA @ 24V
ALARM CURRENT	1.8 mA @ DC 24V
SAMPLING TIME	1 s
ALARM RESPONSE THRESHOLD (SMOKE)	0.1 dB/m ~ 0.14 dB/m
REMOTE LED OUTPUT CURRENT (MAX)	3.5 mA (NB390A-SL & NB390D-SL only)
USABLE ADDRESSES PER LOOP	250
OPERATING TEMPERATURE	-10 °C ~ +50 °C
OPERATING HUMIDITY	0 % ~ 93 % RH, non-condensing
STORAGE TEMPERATURE	-25 °C ~ +80 °C
STORAGE HUMIDITY	0 % ~ 98 % RH, non-condensing
ALARM INDICATOR	Two red LEDs
DIMENSIONS (WITH BASE)	Ø 152mm × 19 mm
INGRESS PROTECTION RATING	IP-43

ORDER CODE	Remote LED Output	DIL Switch
NB390D-S		✓
NB390D-SL <sup>a</sup>	✓	✓
NB390A-S	✓	
NB390A-SL <sup>a</sup>	✓	

<sup>a</sup> Requires 4-terminal base if remote indicator is installed.

