

Description

403 non-addressable photoelectric smoke detectors are state-of-the-art detectors suitable for connection to 2-wire or 4-wire non-addressable fire detection control and indicating equipment, or to addressable fire detection control and indicating equipment that can accept non-addressable type detectors¹.

Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of fire and high immunity against unwanted alarms.

The 403 non-addressable detector range provides fire detection and alarm system designers with an economical smoke detector for life safety and property protection applications.

Features

- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Stable smoke sensing chamber. No adjustment or replacement required
- Dual LEDs for 360° visibility
- 2-wire and 4-wire models for DC 12 V and DC 24 V operation
- 4-wire model for DC 48 V operation
- 4-wire models available with a N/O alarm relay output
- 4-wire models available with auto-reset function
- 4-wire models available with 70 dB sounder
- 2-wire models available with remote LED output
- Connects to zone monitor for use with addressable control and indicating equipment
- Sleek low-profile housing design
- Low maintenance

Compliance

403 smoke detectors have the following compliance ^a.

	EN 54-7 ^b	CE ^d
403-006	✓	✓
403-007	✓	✓
403-008	✓	✓
403-009	✓	✓
403-010	✓	✓
403-011	✓	✓

^a Third-party conformance assessment has not been undertaken.

^b EN 54-7 *Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization*

^c Conformité Européenne



403 non-addressable smoke detector

Accessories

The following accessories are compatible with 403 smoke detectors.

Description	Part number	Datasheet
3-terminal 99 mm low profile continuity base ^a	487-003	31-0117
5-terminal 99 mm low profile continuity base	487-007	31-0117
Remote indicator ^b	681-001	31-0034
Detector monitor module	620-001	31-0027

^a Suitable for 403-006 only.

^b Requires 5-terminal base.

¹ May be used with the 620-001 detector monitor module.

Specifications

Power	403-006	403-007	403-008	403-009	403-010	403-011
Operating voltage	DC (10.8 ~ 33) V		DC (10.8 ~ 26.4) V	DC (40 ~ 60) V	DC (10.8 ~ 26.4) V	
Start-up current	≤ 100 μA					
Start-up time	≤ 30 s					
Quiescent current	≤ 60 μA					
Alarm Condition						
Sampling time	≤ 3 s					
Alarm response threshold	(0.08 ~ 0.15) dB/m					
Alarm current (max)	50 mA	30 mA			40 mA	
Alarm condition indicator	Dual red LEDs					
Remote LED output current (max)	—	15 mA			—	
Alarm output relay	—	SPST. N/O. 1.0 A @ DC 30 V / 0.5 A @ AC 125 V				
Sounder output level	—				70 dB @ 1 m	
Reset						
Reset voltage	≤ 1 V					
Reset time	≤ 30 s					
Auto reset time	—				(4 ~ 6) s	
Environmental						
Operating temperature	(-10 ~ +55) °C					
Operating humidity	(0 ~ 95) % RH, non-condensing					
Storage temperature	(-25 ~ +80) °C					
Storage humidity	(0 ~ 98) % RH, non-condensing					
Miscellaneous						
Dimensions (excluding contacts)	Φ 99 mm × 35 mm					
Ingress protection rating	IP-42					

Ordering Information

	2-Wire	4-Wire	Remote Indicator ^a	Relay Output	Auto Reset	Sounder
403-006	✓	—	—	—	—	—
403-007	✓	—	✓	—	—	—
403-008	—	✓	—	✓	—	—
403-009	—	✓	—	✓	—	—
403-010	—	✓	—	✓	✓	—
403-011	—	✓	—	✓	✓	✓

^a Requires 5-terminal base if remote indicator is installed.

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