

Description

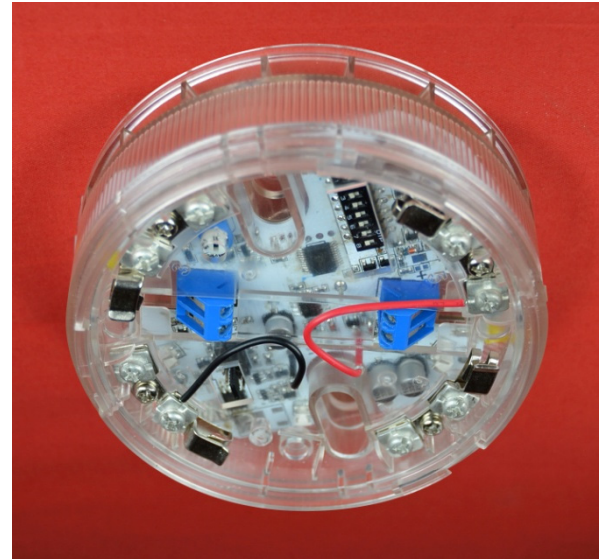
The 683 addressable audio/visual alarm base is a loop-powered device that provides a fire alarm warning to building occupants. It is suitable for connection to Numens addressable control and indicating equipment. The integration of the audio/visual function with a detector base may displace the need to install separate audio/visual alarm devices.

Models with an integrated isolator provides electrical isolation of loop wiring for addressable fire detection control and indicating equipment. The isolator function ensures that short-circuit faults in the alarm zone loop wiring disables a minimum number of devices. Isolator models eliminate the need for a separate isolation device on the loop.

The 683 audio/visual alarm base range provides fire detection and alarm system designers with a Standards-compliant, premium product for life safety and property protection applications.

Features

- Visual, audible and audio/visual models available
- Loop-powered from control and indicating equipment
- Audible alarm output adjustable up to of 85 dB at 1 m
- Audible alarm tone type adjustable:
 - Alternating low frequency
 - Alternating high frequency
 - Sweeping
 - Continuous
- Long-life LEDs
- Low quiescent current
- Easy DIP-switch address setting
- Quick alarm and shadow addressable options are available.
- Optional isolator with both automatic operation and restore
- Isolator LED activation indicators
- Compatible with Numens 2-wire addressable fire detection and alarm systems
- Compatible with either addressable or non-addressable detectors
- Translucent body
- Surface-mount device (SMD) circuit board design
- Secure mounting to all surfaces
- Flexible mounting pitch
- Low profile
- Plated contacts for durable connection to detectors
- Terminals suitable for (0.4 ~ 2.5) mm² diameter wiring
- Low maintenance
- Optional transparent or white cover to finish an installation without a fitted detector



683 audio/visual alarm base



683 audio/visual alarm base with detector fitted



683 audio/visual alarm base covers

Compliance

683 audio/visual alarm bases have the following compliance.

	EN 54-3 ^{a, b}	EN 54-23 ^{a, c}	EN 54-17 ^{a, d}	CE
683-001	✓	—	—	✓
683-002	✓	—	✓	✓
683-003	—	✓	—	✓
683-004	—	✓	✓	✓
683-005	✓	✓	—	✓
683-006	✓	✓	✓	✓
683-007	✓	—	—	✓
683-008	✓	—	✓	✓
683-009	—	✓	—	✓
683-010	—	✓	✓	✓
683-011	✓	✓	—	✓
683-012	✓	✓	✓	✓

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

^b EN 54-3 *Fire alarm devices. Sounders*

^c EN 54-23 *Fire alarm devices. Visual alarms*

^d EN 54-17 *Short-circuit isolators*

Accessories

The following accessories are compatible with 683 audio/visual alarm bases.

Description	Part number	Datasheet
Audio/visual alarm base cover, 102mm, transparent	683-013	—
Audio/visual alarm base cover, 102mm, white	683-014	—

Specifications

	683-001 683-007	683-002 683-008	683-003 683-009	683-004 683-010	683-005 683-011	683-006 683-012
Operating voltage	DC (17 ~ 33) V					
Start-up current	≤ 700 μA	≤ 800 μA	≤ 700 μA	≤ 800 μA	≤ 700 μA	≤ 800 μA
Start-up time	≤ 30 s					
Quiescent current	≤ 1.1 mA					
Alarm current	≤ 8 mA					
Audible alarm output @ 1 m	Adjustable up to 85 dB	Adjustable up to 85 dB	—	—	Adjustable up to 85 dB	Adjustable up to 85 dB
Audible alarm type	Continuous or pulse	Continuous or pulse	—	—	Continuous or pulse	Continuous or pulse
Visual alarm indicator	—	—	Red LED Continuous or pulse	Red LED Continuous or pulse	Red LED Continuous or pulse	Red LED Continuous or pulse
Isolator continuous current (max)	—	5 mA	—	5 mA	—	5 mA
Isolator switching resistance (max)	—	0.3 Ω	—	0.3 Ω	—	0.3 Ω
Isolator activation indication	—	2 x Yellow LED	—	2 x Yellow LED	—	2 x Yellow LED
Number of terminals	3					
Terminal wiring	(0.4 ~ 2.5) mm ²					
Usable addresses per alarm loop	63 ^a					
Operating temperature	(-10 ~ +55) °C					
Operating humidity	(0 ~ 95) % RH, non-condensing					
Storage temperature	(-25 ~ +80) °C					
Storage humidity	(0 ~ 98) % RH, non-condensing					
Dimensions (excluding contacts)	∅ 102 mm × 53 mm					

^a The maximum usable addresses for 683-007 ~ 683-012 is 32.

Compatibility

683 audio/visual alarm bases are compatible with the following detectors.

Detector Part number	Description	Datasheet	Base Part Number	
			683-001 ~ 683-006	683-007 ~ 683-012
HNA-360-H2	Addressable heat detector	31-0040	—	✓
HNA-360-HL	Addressable heat detector, remote LED output	31-0040	—	✓
HNC-310-H2	Non-addressable heat detector	31-0041	✓	—
HNC-310-HL	Non-addressable heat detector, remote LED output	31-0041	✓	—
HNC-310-HR	Non-addressable heat detector, 4-wire, relay output	31-0041	✓	—
SNA-360-C2	Addressable smoke/heat detector	31-0042	—	✓
SNA-360-CL	Addressable smoke/heat detector, remote LED output	31-0042	—	✓
SNA-360-S2	Addressable smoke detector	31-0043	—	✓
SNA-360-SL	Addressable smoke detector, remote LED output	31-0043	—	✓
SNC-300-C2	Non-addressable smoke/heat detector	31-0044	✓	—
SNC-300-CL	Non-addressable smoke detector, remote LED output	31-0044	✓	—
SNC-300-CR	Non-addressable smoke detector, 4-wire, relay output	31-0044	✓	—
SNC-300-S2	Non-addressable smoke detector	31-0045	✓	—
SNC-300-SL	Non-addressable smoke detector, remote LED output	31-0045	✓	—
SNC-300-SR	Non-addressable smoke detector, 4-wire, relay output	31-0045	✓	—

Ordering Information

	Audible Alarm	Visual Alarm	Isolator
683-001, 683-007	✓	—	—
683-002, 683-008	✓	—	✓
683-003, 683-009	—	✓	—
683-004, 683-010	—	✓	✓
683-005, 683-011	✓	✓	—
683-006, 683-012	✓	✓	✓

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