

### Description

The 682 isolator base provides electrical isolation of alarm zone wiring for addressable fire detection control and indicating equipment. The use of the 682 as part of the alarm zone wiring ensures that short-circuit faults in the alarm zone loop wiring disable a minimum number of devices. The 682 isolator base eliminates the need for a separate isolation device where detectors are installed on the loop.

The 682 isolator base range provides fire detection and alarm system designers with a Standards-compliant, premium product for life safety and property protection applications.

### Features

- Automatic operation
- Automatic reset
- LED activation indicator
- Surface-mount device (SMD) circuit board design
- Compatible with 2-wire fire detection and alarm systems
- Secure mounting to all surfaces
- Flexible mounting pitch
- Low profile
- Plated contacts for durable connection to detectors
- Fitted square washer for easy and reliable cable clamping
- Terminals suitable for (0.4 ~ 2.5) mm<sup>2</sup> diameter wiring
- Low maintenance

### Compliance

682 isolator bases have the following compliance.

	EN 54-17 <sup>a, b</sup>	CE
682-003	✓	✓
682-004	✓	✓

<sup>a</sup> EN 54-17 Short-circuit isolators

<sup>b</sup> Third-party conformance assessment has not been undertaken.

### Compatibility Matrix

The following table shows bases and compatible detectors.

Detector	Base	
	682-003	682-004
SNA-360-S2 Addressable smoke detector	✓	—
SNA-360-SL Addressable smoke detector, remote LED output	—	✓
HNA-360-H2 Addressable heat detector	✓	—
HNA-360-HL Addressable heat detector, remote LED output	—	✓
SNA-360-C2 Addressable smoke/heat detector	✓	—
SNA-360-CL Addressable smoke/heat detector, remote LED output	—	✓



**682 isolator base (9-terminal base shown)**

### Specifications

	682-003	682-004
Operating voltage	DC (17 ~ 28) V	
Standby current (max)	600 µA @ DC 24 V	
Continuous current (max)	5 mA	
Switching current (max)	3.0 A	
Switching resistance (max)	0.3 Ω	
Activation indication	Yellow LED	
Number of terminals	5	9
Terminal wiring diameter	(0.4 ~ 2.5) mm <sup>2</sup>	
Operating temperature	(-0 ~ +60) °C	
Operating humidity	(0 ~ 95) % RH, non-condensing	
Storage temperature	(-25 ~ +80) °C	
Storage humidity	(0 ~ 98) % RH, non-condensing	
Dimensions	Φ 102 mm × 19.5 mm	

### Ordering Information

Part number	Description
682-003	5-terminal low profile isolator base
682-004	9-terminal low profile isolator base

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