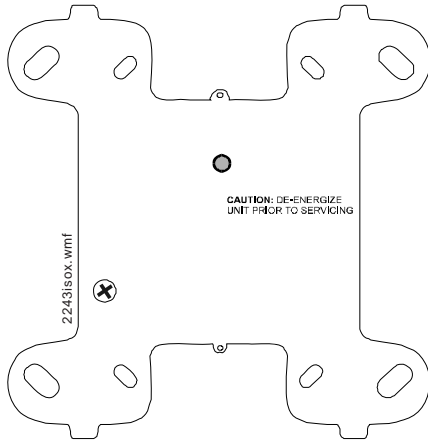


# SS-LI

## Fault Isolator Module



**SS-LI Fault Isolator Module**

### Description

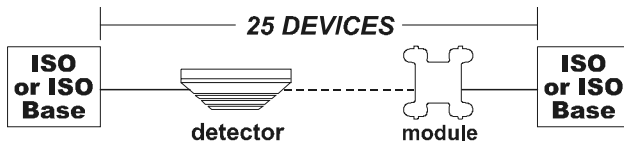
The Gamewell SS-LI Fault Isolator Module is used with the 602, 610, 632, 654, 658, 602VE, 610VE, VSYS-1 thru IS-610 and 632-126 thru -1008 to protect the system against wire-to-wire short circuits on the SmartScan™ SLC loops.

### Applications

The Fault Isolator Modules should be spaced between groups of sensors in a loop to protect the rest of the loop. Use to isolate short circuit problems within a section of a loop so that other sections can continue to operate normally. The SS-LI supports a maximum of 25 devices inbetween isolators.

The maximum number of addressable devices between isolators (or B224BI isolator bases) is 25 devices. B224RB relay bases draw more current than other intelligent devices. When calculating the 25-device maximum: B224RB represents 2.5 DEVICES

**NOTE ON MAXIMUM NUMBER OF DEVICES:** Up to 99 SS-LI modules and/or bases can be used per Signaling Line Circuit (SLC) without loss of additional module addresses due to current limitations.



2243dia1.wmf

### Installation

- Mount on a standard 4" (10.16 cm) mounting junction box which is at least 2-1/8" (5.3975 cm) deep.
- Terminal screws are provided for "in and out" wiring.
- Installation instructions are provided with each module.
- Surface-mount box is available as an option.

### Product Line Information

**SS-LI** Isolator Module.

**SMB500** Surface Mount Backbox.

### Construction

The face plate is made of off-white plastic. Includes yellow LED indicator that pulses when normal and illuminates steady when a short is detected.

### Features

- Powered by SmartScan™ SLC loop directly, no external power required.
- Mount in standard 4" (10.16 cm) square (2-1/8" [5.3975 cm] deep) junction boxes.
- Integral LED blinks to indicate normal condition. Illuminates steady when short circuit condition is detected.
- High noise (EMF/RFI) immunity.
- Wide viewing angle of LED.
- SEMS screws with clamping plates for ease of wiring.
- Opens SLC loop automatically on detection of short, preventing the short from causing failure of the entire loop.
- Automatically resets on correction of short.
- Supports Style 4, 6, or 7 wiring.

### Listings

Listings and approvals below apply to the SS-LI Fault Isolator Module. In some cases, the module may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S1195.



## Operation

Automatically opens circuit when the line voltage drops below four volts. Fault Isolator Modules should be spaced between groups of addressable devices (maximum 25, see notes on page 1) in a loop to protect the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the groups of sensors between them. The remaining units on the loop continue to fully operate.

In Style 4 loops, the SS-LI is generally used at each T-tap branch, to limit the effect of short circuits on a branch to the devices on that branch. The LED indicator is on continuously during a short circuit condition.

The SS-LI Fault Isolator Module automatically restores the shorted portion of the communications loop to normal condition when the short circuit condition is removed.

## Specifications

### Operating voltage

15 – 32 VDC (peak).

### Current range

5 mA for LED latched in alarm.

### Standby current

400 µA maximum, plus supervision current.

### Pulsing current

30 mA for 15 mS.

### Temperature range

32°F to 120°F (0°C to 49°C).

### Relative humidity

10% to 93%.

### Weight

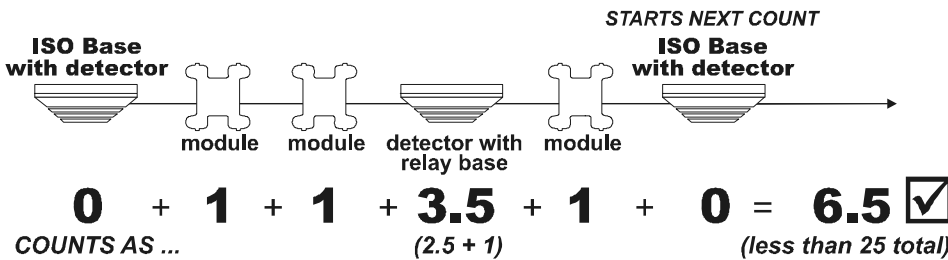
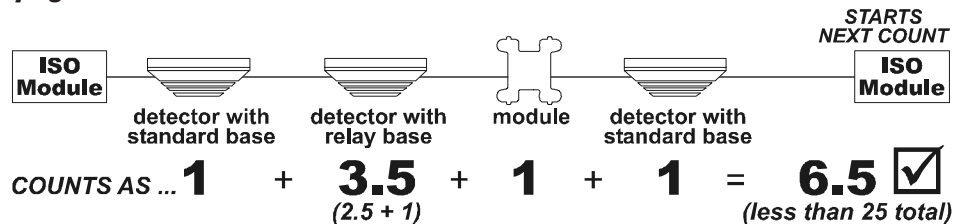
150 grams (5 oz.).

## Examples of Device Counts

(see notes under Applications on page 1)

### EXAMPLE 1

g2464ex1.wmf

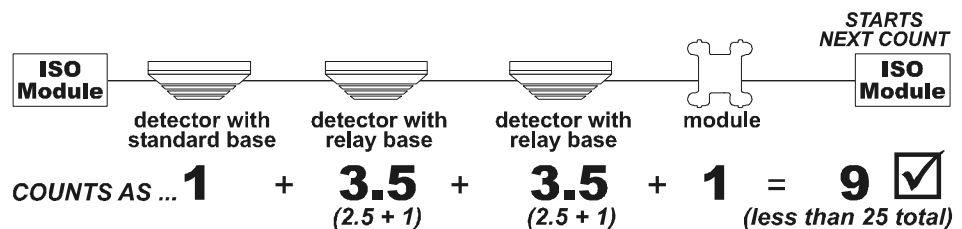


### EXAMPLE 2

g2464ex2.wmf

### EXAMPLE 3

g2464ex3.wmf



**Gamewell**<sup>™</sup>  
A 150-Year Tradition

A Honeywell Company

**Gamewell-FCI**  
12 Clintonville Road  
Northford, CT 06472-1610  
Phone: 203-484-7161  
Fax: 203-484-7118  
www.gamewell-fci.com

A Honeywell Company  
© 2006 Gamewell-FCI

Specifications and wiring information are provided for information only and are believed to be accurate. Gamewell-FCI assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions shipped with the product shall always be used for actual installation. For more information, contact Gamewell-FCI.